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Search Results - Record(s) 1 through 10 of 66 returned.

☐ 1. Document ID: US 6172255 B1

L8: Entry 1 of 66

File: USPT

Jan 9, 2001

US-PAT-NO: 6172255

DOCUMENT-IDENTIFIER: US 6172255 B1

TITLE: Alkoxy-alkyl-substituted 1-H-3-aryl-pyrrolidine-2,4-diones used as herbicides and pesticides

DATE-ISSUED: January 9, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fischer; Reiner	Monheim	N/A	N/A	DEX
Bretschneider; Thomas	Lohmar	N/A	N/A	DEX
Kruger; Bernd-Wieland	Bergisch Gladbach	N/A	N/A	DEX
Ruther; Michael	Monheim	N/A	N/A	DEX
Erdelen; Christoph	Leichlingen	N/A	N/A	DEX
Wachendorff-Neumann; Ulrike	Neuwied	N/A	N/A	DEX
Santel; Hans-Joachim	Leverkusen	N/A	N/A	DEX
-Dollinger; Markus	Leverkusen	N/A	N/A	DEX

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
<u>Bayer</u> Aktiengesellschaft	Leverkusen	N/A	N/A	DEX	03

APPL-NO: 9/ 127279

DATE FILED: July 31, 1998

## PARENT-CASE:

This is a divisional application of Ser. No. 08/716,200 filed on Sep. 27, 1996, now U.S. Pat. No. 5,830,826, which is a 371 of PCT/EP95/01100 filed on Mar. 23, 1995.

## FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	44 11 669	April 5, 1994
DE	44 40 594	November 14, 1994

INT-CL: [7] C07C 233/31, C07C 231/02, C07C 231/06

US-CL-ISSUED: 560/24

US-CL-CURRENT: 560/24

FIELD-OF-SEARCH: 560/24

## REF-CITED:

## FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
0 456 063 A2	November 1991	EPX	
0 521 334 A1	January 1993	EPX	

ART-UNIT: 166

PRIMARY-EXAMINER: Powers; Fiona T.

ATTY-AGENT-FIRM: Norris, McLaughlin &amp; Marcus, P.A.

ABSTRACT:

The present invention relates to novel 1H-3-aryl-pyrrolidine-2,4-dione derivatives of the formula (I) ##STR1##

in which

A, B, G, X, Y and Z have the meaning given in the description, to processes for their preparation and to intermediates for this purpose. The compounds of the formula (I) are used as pesticides and herbicides.

2 Claims, 0 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	COMM	Draw Desc	Image
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☐ 2. Document ID: US 6169092 B1

L8: Entry 2 of 66

File: USPT

Jan 2, 2001

US-PAT-NO: 6169092

DOCUMENT-IDENTIFIER: US 6169092 B1

TITLE: 3-Ureido-pyridofurans and -pyridothiophenes for the treatment of inflammatory processes

DATE-ISSUED: January 2, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Braunlich; Gabriele	Wuppertal	N/A	N/A	DEX
Es-Sayed; Mazen	Wuppertal	N/A	N/A	DEX
Fischer; Rudiger	Koln	N/A	N/A	DEX
Henning; Rolf	Wuppertal	N/A	N/A	DEX
Fugmann; Burkhard	Ratingen	N/A	N/A	DEX
Schneider; Stephan	Wuppertal	N/A	N/A	DEX
Sperzel; Michael	Wuppertal	N/A	N/A	DEX
Sturton; Graham	Maidenhead	N/A	N/A	GBX
Fitzgerald; Mary	Yarnton	N/A	N/A	GBX
Briggs; Barbara	Kingston	N/A	N/A	GBX
Concepcion; Arnel	Nara	N/A	N/A	JPX

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Bayer Aktiengesellschaft	Leverkusen	N/A	N/A	DEX	03

APPL-NO: 9/ 214370

DATE FILED: January 5, 1999

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
GB	9614718	July 12, 1996

PCT-DATA:

APPL-NO	DATE-FILED	PUB-NO	PUB-DATE	371-DATE	102(E)-DATE
PCT/EP97/03432	July 1, 1997	WO98/02440	Jan 22, 1998	Jan 5, 1999	Jan 5, 1999

INT-CL: [7] A61K 31/495, A61K 31/44, C07D 408/02, C07D 491/00, C07D 515/02

US-CL-ISSUED: 514/258; 514/302, 514/291, 514/301, 546/116, 546/89, 546/114, 544/253

US-CL-CURRENT: 514/258; 514/291, 514/301, 514/302, 544/253, 546/114, 546/116, 546/89

FIELD-OF-SEARCH: 544/253, 514/258, 514/302, 514/291, 514/301, 546/116, 546/89, 546/114

REF-CITED:

## U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>4455427</u>	June 1984	Johnson	N/A
<u>4663347</u>	May 1987	Atkinson et al.	N/A
<u>5377477</u>	January 1995	Haberstroh et al.	N/A
<u>5504213</u>	April 1996	Fischer et al.	N/A
<u>5565488</u>	October 1996	Braunlich et al.	N/A
<u>5622989</u>	April 1997	Braunlich et al.	N/A
<u>5922740</u>	July 1999	Braunlich et al.	N/A

## FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
0 069 521	January 1983	EPX	
0 146 243	June 1985	EPX	
0 551 662	July 1993	EPX	
0 623 607	November 1994	EPX	
0 685 475	December 1995	EPX	
0 685 474	December 1995	EPX	
0 685 479	December 1995	EPX	
0 731 099	September 1996	EPX	
0 779 291	June 1997	EPX	

## OTHER PUBLICATIONS

Ried, Walter et. al., Reaction of 2-benzoyl-3-chloro-1-benzothiophene-1,1-dioxide with sulfur compounds, Chem. Ber., vol. 110 (4), pp. 1356-1363, 1977.  
Biochen J. 291, 389-395, 1993.  
Biochen, Pharmacol. 42, 153-162, 1991.  
Eur. J. Pharmacol. 127, 105-115, 1986.

ART-UNIT: 162

PRIMARY-EXAMINER: Kight; John

ASSISTANT-EXAMINER: Robinson; Binta

ATTY-AGENT-FIRM: Norris McLaughlin &amp; Marcus P.A.

## ABSTRACT:

3-Urea-pyridofurans and -pyridothiophenes are prepared by reacting appropriately substituted 3-amino-pyridofurans or -pyridothiophenes with isocyanates or isothiocyanates. The 3-urea-pyridofurans and -pyridothiophenes can be used as active ingredients in medicaments, particularly in medicaments for the treatment of acute and chronic inflammatory processes.

7 Claims, 0 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 3. Document ID: US 6150304 A

L8: Entry 3 of 66

File: USPT

Nov 21, 2000

US-PAT-NO: 6150304

DOCUMENT-IDENTIFIER: US 6150304 A

TITLE: 2-aryl-cyclopentane-1,3-dione derivatives

DATE-ISSUED: November 21, 2000

INVENTOR-INFORMATION:



NAME	CITY	STATE	ZIP CODE	COUNTRY
Fischer; Reiner	Monheim	N/A	N/A	DEX
Dumas; Jacques	Koln	N/A	N/A	DEX
Bretschneider; Thomas	Lohmar	N/A	N/A	DEX
Erdelen; Christoph	Leichlingen	N/A	N/A	DEX
Wachendorff-Neumann; Ulrike	Neuwied	N/A	N/A	DEX
Santel; Hans-Joachim	Leverkusen	N/A	N/A	DEX
Dollinger; Markus	Leverkusen	N/A	N/A	DEX
Turberg; Andreas	Erkrath	N/A	N/A	DEX
Mencke; Norbert	Leverkusen	N/A	N/A	DEX

# ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
<u>Bayer</u> Aktiengesellschaft	Leverkusen	N/A	N/A	DEX	03

APPL-NO: 9/ 131043

DATE FILED: August 6, 1998

# PARENT-CASE:

This application is a divisional of application Ser. No. 08/765,429, filed on Dec. 31, 1996 (now allowed) now U.S. Pat. No. 5,840,661.

# FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	44 23 943	July 7, 1994
DE	195 02 815	January 30, 1995
DE	195 18 962	May 23, 1995

INT-CL: [7] A01N 37/10, A01N 37/34, C07C 255/06

US-CL-ISSUED: 504/309; 504/310, 504/348, 514/520, 558/70, 558/194, 558/423

US-CL-CURRENT: 504/309; 504/310, 504/348, 514/520, 558/194, 558/423, 558/70

FIELD-OF-SEARCH: 504/309, 504/310, 504/348, 558/70, 558/194, 558/423, 514/520, 546/194, 549/66, 544/244, 548/201, 548/369.4, 548/370.4, 548/370.7

# REF-CITED:

## U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>5840661</u>	November 1998	Fischer et al.	504/348

ART-UNIT: 163

PRIMARY-EXAMINER: Lambkin; Deborah C.

ASSISTANT-EXAMINER: Sackey; Ebenezer

ATTY-AGENT-FIRM: Norris, McLaughlin & Marcus, P.A.

# ABSTRACT:

The present invention relates to novel 2-aryl-3-hydroxy-cyclopent-2-en-1-one derivatives of the formula (I) ##STR1## in which X represents halogen, nitro, cyano, alkyl, alkoxy, alkenyloxy, alkylthio, alkylsulphinyl, alkylsulphonyl, halogenoalkyl or halogenoalkoxy,

Y represents hydrogen, halogen, nitro, cyano, alkyl, alkoxy, alkenyloxy, alkylthio, alkylsulphinyl, alkylsulphonyl, halogenoalkyl or halogenoalkoxy,

Z represents halogen, nitro, cyano, alkyl, alkoxy or halogenoalkoxy and

A, B, D.sup.1, D.sup.2, G and n have the meaning given in the description,

several processes for their preparation and their use as compositions for controlling pests and as herbicides.

14 Claims, 0 Drawing figures

☐ 4. Document ID: US 6140358 A

L8: Entry 4 of 66

File: USPT

Oct 31, 2000

US-PAT-NO: 6140358

DOCUMENT-IDENTIFIER: US 6140358 A

TITLE: Substituted phenyl keto enols as pesticides and herbicides

DATE-ISSUED: October 31, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lieb; Volker	Leverkusen	N/A	N/A	DEX
Hagemann; Hermann	Leverkusen	N/A	N/A	DEX
Widdig; Arno	Odenthal	N/A	N/A	DEX
Ruther; Michael	Monheim	N/A	N/A	DEX
Fischer; Reiner	Monheim	N/A	N/A	DEX
Bretschneider; Thomas	Lohmar	N/A	N/A	DEX
Erdelen; Christoph	Leichlingen	N/A	N/A	DEX
Wachendorff-Neumann; Ulrike	Neuwied	N/A	N/A	DEX
Graff; Alan	Koln	N/A	N/A	DEX
Schneider; Udo	Leverkusen	N/A	N/A	DEX

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
<u>Bayer</u> Aktiengesellschaft	Leverkusen	N/A	N/A	DEX	03

APPL-NO: 9/ 155637

DATE FILED: September 29, 1998

PARENT-CASE:

This application is a 371 PCT/EP97/01426 Mar. 21, 1997.

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	196 13 171	April 2, 1996
DE	196 49 665	November 29, 1996

PCT-DATA:

APPL-NO	DATE-FILED	PUB-NO	PUB-DATE	371-DATE	102(E)-DATE
PCT/EP97/01426	March 21, 1997	WO97/36868	Oct 9, 1997	Sep 29, 1998	Sep 29, 1998

INT-CL: [7] A61K 31/40, C07D 207/12, C07D 405/00

US-CL-ISSUED: 514/425; 514/422, 548/544, 548/517

US-CL-CURRENT: 514/425; 514/422, 548/517, 548/544

FIELD-OF-SEARCH: 548/544, 548/517, 514/425, 514/422

REF-CITED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>4925868</u>	May 1990	Terao et al.	N/A
<u>5045560</u>	September 1991	Fischer et al.	N/A
<u>5091537</u>	February 1992	Fischer et al.	N/A
<u>5094681</u>	March 1992	Kramer et al.	N/A
<u>5116836</u>	May 1992	Fischer et al.	N/A
<u>5142065</u>	August 1992	Fischer et al.	N/A
<u>5186737</u>	February 1993	Fischer et al.	N/A
<u>5207817</u>	May 1993	Kramer et al.	N/A
<u>5225434</u>	July 1993	Bertram et al.	N/A
<u>5258527</u>	November 1993	Krauskopf et al.	N/A
<u>5262383</u>	November 1993	Fischer et al.	N/A
<u>5393729</u>	February 1995	Fischer et al.	N/A
<u>5420155</u>	May 1995	Kulagowski et al.	N/A
<u>5462913</u>	October 1995	Fischer et al.	N/A
<u>5504057</u>	April 1996	Fischer et al.	N/A
<u>5565450</u>	October 1996	Fischer et al.	N/A
<u>5567671</u>	October 1996	Fisher et al.	N/A
<u>5589469</u>	December 1996	Fischer et al.	N/A
<u>5602078</u>	February 1997	Fischer et al.	N/A
<u>5610122</u>	March 1997	Fischer et al.	N/A
<u>5616536</u>	April 1997	Fischer et al.	N/A
<u>5622917</u>	April 1997	Fischer et al.	N/A
<u>5677449</u>	October 1997	Fischer et al.	N/A
<u>5683965</u>	November 1997	Bachmann et al.	N/A
<u>5719310</u>	February 1998	Fischer et al.	N/A

#### FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
2187015	October 1995	CAX	
442077	November 1995	EPX	
196 02 524	January 1997	DEX	
196 03 332	January 1997	DEX	
95/01358	January 1995	WOX	
WO 95/03303	February 1995	WOX	
95/20572	August 1995	WOX	
95/26345	October 1995	WOX	

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S. Suzuki et al, Chem. Pharm. Bull, 15, 1120 (month unavailable) 1967.  
R. Schmierer & H. Mildenberger, Liebigs Ann. Chem., 1095 (month unavailable) 1985.  
J. Chem. Soc. Perkin Trans. I, 1567-76 , (month unavailable) 1985.  
A.M. Chirazi, T. Kappe & E. Ziegler, Arch. Pharm. 309, 558 (month unavailable) 1976.  
K.H. Boltze & K. Heidenbluth, Chem Ber. 91, (date unavailable) 2849.  
E. Ziegler & E. Steiner, Monatsh. 95, 147 (month unavailable) 1964.  
R. Ketcham, T. Kappe & E. Ziegler, J. Herterocycl. Chem. 10, 223, Apr. 1973 .

ART-UNIT: 163

PRIMARY-EXAMINER: Lambkin; Deborah C.

ATTY-AGENT-FIRM: Gil; Joseph C. Marmo; Carol

#### ABSTRACT:

The present invention relates to novel compounds of the formula (I) ##STR1## in which Het represents one of the groups ##STR2## in which A, B, D, G, V, W, X, Y and Z are as defined in the description,

processes and interm diates for their preparation, and to their use as pesticides and herbicides.

14 Claims, 0 Drawing figures

☐ 5. Document ID: US 6133296 A

L8: Entry 5 of 66

File: USPT

Oct 17, 2000

US-PAT-NO: 6133296

DOCUMENT-IDENTIFIER: US 6133296 A

TITLE: Substituted pyridyl keto enols

DATE-ISSUED: October 17, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lieb; Folker	Leverkusen	N/A	N/A	DEX
Hagemann; Hermann	Leverkusen	N/A	N/A	DEX
Widdig; Arno	Odenthal	N/A	N/A	DEX
Ruther; Michael	Monheim	N/A	N/A	DEX
Fischer; Reiner	Monheim	N/A	N/A	DEX
Bretschneider; Thomas	Lohmar	N/A	N/A	DEX
Erdelen; Christoph	Leichlingen	N/A	N/A	DEX
Wachendorff-Neumann; Ulrike	Neuwied	N/A	N/A	DEX
Graff; Alan	Koln	N/A	N/A	DEX
Dahmen; Peter	Neuss	N/A	N/A	DEX
Dollinger; Markus	Overland	KS	N/A	N/A
Gallenkamp; Bernd	Wuppertal	N/A	N/A	DEX

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
<u>Bayer</u> Aktiengesellschaft	Leverkusen	N/A	N/A	DEX	03

APPL-NO: 9/ 180118

DATE FILED: October 30, 1998

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	196 18 831	May 10, 1996
DE	196 51 841	December 13, 1996

PCT-DATA:

APPL-NO	DATE-FILED	PUB-NO	PUB-DATE	371-DATE	102(E)-DATE
PCT/EP97/02183	April 28, 1997	WO97/43275	Nov 20, 1997	Oct 30, 1998	Oct 30, 1998

INT-CL: [7] A61K 31/44, C07D 401/00

US-CL-ISSUED: 514/343; 546/278.7

US-CL-CURRENT: 514/343; 546/278.7

FIELD-OF-SEARCH: 514/343, 546/278.7

REF-CITED:

U.S. PATENT DOCUMENTS

<u>PAT-NO</u>	<u>ISSUE-DATE</u>	<u>PATENTEE-NAME</u>	<u>US-CL</u>
<u>3542809</u>	November 1970	Nakanishi	260/332.2
<u>4678501</u>	July 1987	Manning	71/92
<u>4837204</u>	June 1989	Rosenberg et al.	514/18
<u>4985063</u>	January 1991	Fischer et al.	71/88
<u>5091537</u>	February 1992	Fischer et al.	546/226
<u>5094681</u>	March 1992	Karmer et al.	71/88
<u>5116836</u>	May 1992	Fischer et al.	514/224.2
<u>5142065</u>	August 1992	Fischer et al.	548/533
<u>5186737</u>	February 1993	Fischer et al.	504/283
<u>5207817</u>	May 1993	Kramer et al.	504/299
<u>5225434</u>	July 1993	Bertram et al.	514/411
<u>5258527</u>	November 1993	Kraskopf et al.	548/543
<u>5262383</u>	November 1993	Fischer et al.	504/195
<u>5462913</u>	October 1995	Fischer et al.	504/138
<u>5494890</u>	February 1996	Cederbaum et al.	504/281
<u>5504057</u>	April 1996	Fischer et al.	504/283
<u>5506193</u>	April 1996	Cederbaum et al.	504/282
<u>5565450</u>	October 1996	Fischer et al.	514/227.2
<u>5567671</u>	October 1996	Fischer et al.	504/283
<u>5589469</u>	December 1996	Fischer et al.	514/91
<u>5602078</u>	February 1997	Fischer et al.	504/283
<u>5610122</u>	March 1997	Fischer et al.	504/251
<u>5616536</u>	April 1997	Fischer et al.	504/225
<u>5622917</u>	April 1997	Fischer et al.	504/283
<u>5677449</u>	October 1997	Fischer et al.	544/165
<u>5719310</u>	February 1998	Fischer et al.	560/83
<u>5830826</u>	November 1998	Fischer et al.	504/195

#### FOREIGN PATENT DOCUMENTS

<u>FOREIGN-PAT-NO</u>	<u>PUBN-DATE</u>	<u>COUNTRY</u>	<u>US-CL</u>
3314249	October 1984	DEX	
94/01997	February 1994	WOX	
94/29268	December 1994	WOX	
95/01358	January 1995	WOX	
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#### OTHER PUBLICATIONS

Chemical Abstracts 129:28216, Fassler, 1998.  
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 Chemical Abstracts 111:168777, Castro, 1988.  
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 M.S. Chambers, E.J. Thomas and D.J. Williams, J. Chem. Soc., Chem. Commun., p. 1228, 1987.

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Org. Prep. Procedures Int. 7(4) 155-158, 1975.  
Tetrahedron Letters, vol. 27, No. 24, 1986.  
Pharmazie 43 1988, H.G. Henning et al, p. 45.  
Arch. Pharm. vol. 321, J. Mehnert, 1988, pp. 897-901.  
Chem. Abstract. vol. 86, No. 1, Jan. 3, 1977, Abstract No. 715n.  
Chem. Abstracts, vol. 109, No. 15, Oct. 10, 1988, Abstract No. 128726c.  
Tetrahedron Letters, vol. 29, No. 9, 1988, pp. 971-974.

ART-UNIT: 162

PRIMARY-EXAMINER: Seaman; D. Margaret

ATTY-AGENT-FIRM: Gil; Joseph C. Marmo; Carol

#### ABSTRACT:

The invention relates to new pyridyl-substituted cyclic ketoenols of the formula (I)  
##STR1## in which V.sup.1, V.sup.2 or V.sup.3 represents nitrogen,

Het represents one of the groups ##STR2## A, B, G, W, Z and z have the meanings given in the description, to a plurality of processes and intermediates for their preparation, and to their use as pesticides and herbicides.

7 Claims, 0 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	INDEX	Draw Desc	Image
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## ☐ 6. Document ID: US 6114374 A

L8: Entry 6 of 66

File: USPT

Sep 5, 2000

US-PAT-NO: 6114374

DOCUMENT-IDENTIFIER: US 6114374 A

TITLE: 2-and 2,5-substituted phenylketoenols

DATE-ISSUED: September 5, 2000

#### INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lieb; Folker	Leverkusen	N/A	N/A	DEX
Fischer; Reiner	Monheim	N/A	N/A	DEX
Bretschneider; Thomas	Lohmar	N/A	N/A	DEX
Ruther; Michael	Monheim	N/A	N/A	DEX
Graff; Alan	Koln	N/A	N/A	DEX
Schneider; Udo	Leverkusen	N/A	N/A	DEX
Erdelen; Christoph	Leichlingen	N/A	N/A	DEX
Wachendorff-Neumann; Ulrike	Neuwied	N/A	N/A	DEX
Andersch; Wolfram	Bergisch Gladbach	N/A	N/A	DEX
Turberg; Andreas	Erkrath	N/A	N/A	DEX

#### ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
<u>Bayer</u> Aktiengesellschaft	Leverkusen	N/A	N/A	DEX	03

APPL-NO: 9/ 230653

DATE FILED: January 28, 1999

#### PARENT-CASE:

This application is a 371 of PCT/EP97/03973 Jul. 23, 1997.

#### FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	196 31 586	August 5, 1996
DE	197 16 591	April 21, 1997

## PCT-DATA:

APPL-NO	DATE-FILED	PUB-NO	PUB-DATE	371-DATE	102(E)-DATE
PCT/EP97/03973	July 23, 1997	WO98/05638	Feb 12, 1998	Jan 28, 1999	Jan 28, 1999

INT-CL: [7] A01N 43/36, A01N 43/06, A01N 43/08, A01N 43/16, C07D 207/12

US-CL-ISSUED: 514/424; 514/445, 514/473, 514/460, 548/544, 549/62, 549/313, 549/292

US-CL-CURRENT: 514/424; 514/445, 514/460, 514/473, 548/544, 549/292, 549/313, 549/62

FIELD-OF-SEARCH: 548/544, 549/62, 549/313, 549/292, 514/424, 514/425, 514/445, 514/473, 514/460

## REF-CITED:

## U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>5262383</u>	November 1993	Fischer et al.	504/195
<u>5393729</u>	February 1995	Fischer et al.	504/128
<u>5589469</u>	December 1996	Fischer et al.	514/91

ART-UNIT: 163

PRIMARY-EXAMINER: Lambkin; Deborah C.

ATTY-AGENT-FIRM: Gil; Joseph C.

## ABSTRACT:

The invention relates to novel phenyl-substituted cyclic ketoenols of the formula (I) ##STR1## in which Het represents one of the groups ##STR2## in which A, B, D, G, X and Z are each as defined in the description, to a plurality of processes and intermediates for their preparation, and to their use as pesticides.

13 Claims, 0 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 7. Document ID: US 6110872 A

L8: Entry 7 of 66

File: USPT

Aug 29, 2000

US-PAT-NO: 6110872

DOCUMENT-IDENTIFIER: US 6110872 A

TITLE: 2,4,5-trisubstituted phenylketo-enols for use as pesticides and herbicides

DATE-ISSUED: August 29, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lieb; Folker	Leverkusen	N/A	N/A	DEX
Hagemann; Hermann	Leverkusen	N/A	N/A	DEX
Widdig; Arno	Odenthal	N/A	N/A	DEX
Ruther; Michael	Monheim	N/A	N/A	DEX
Fischer; Reiner	Monheim	N/A	N/A	DEX
Bretschneider; Thomas	Lohmar	N/A	N/A	DEX
Erdelen; Christoph	Leichlingen	N/A	N/A	DEX
Wachendorff-Neumann; Ulrike	Neuwied	N/A	N/A	DEX
Santel; Hans-Joachim	Leverkusen	N/A	N/A	DEX
Dollinger; Markus	Leverkusen	N/A	N/A	DEX
Graff; Alan	Koln	N/A	N/A	DEX
Mencke; Norbert	Leverkusen	N/A	N/A	DEX
Turberg; Andreas	Erkrath	N/A	N/A	DEX
Dahmen; Peter	Neuss	N/A	N/A	DEX

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
<u>Bayer</u> Aktiengesellschaft	Leverkusen	N/A	N/A	DEX	03

APPL-NO: 8/ 983028

DATE FILED: December 22, 1997

## FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	195 23 471	June 28, 1995
DE	196 02 524	January 25, 1996

## PCT-DATA:

APPL-NO	DATE-FILED	PUB-NO	PUB-DATE	371-DATE	102(E)-DATE
PCT/EP96/02606	June 17, 1996	WO97/01535	Jan 16, 1997	Dec 22, 1997	Dec 22, 1997

INT-CL: [7] C07D 207/38, C07D 307/60, C07D 333/32, A01N 43/36

US-CL-ISSUED: 504/284; 514/409, 548/408, 548/410, 548/411

US-CL-CURRENT: 504/284; 514/409, 548/408, 548/410, 548/411FIELD-OF-SEARCH: 548/408, 548/410, 548/411, 504/284, 514/409

## REF-CITED:

## FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
0 596 298	May 1994	EPX	
0 613 885	September 1994	EPX	
0 647 637	April 1995	EPX	
44 10 410	September 1995	DEX	
WO 95 01971	January 1995	WOX	
WO 95 14013	May 1995	WOX	

ART-UNIT: 161

PRIMARY-EXAMINER: Ford; John M.

ASSISTANT-EXAMINER: Kifle; Bruck

ATTY-AGENT-FIRM: Norris, McLaughlin &amp; Marcus, P.A.

## ABSTRACT:

The invention relates to new phenyl-substituted cyclic ketoenols of the formula (I) in which

Het represents one of the groups ##STR1## wherein A, B, D, G, X, Y and Z have the meaning given in the description, several processes and intermediate products for their preparation and their use as pest control agents and herbicides.

6 Claims, 0 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw Desc	Image
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☐ 8. Document ID: US 6100220 A

L8: Entry 8 of 66

File: USPT

Aug 8, 2000

US-PAT-NO: 6100220

DOCUMENT-IDENTIFIER: US 6100220 A

TITLE: Thiophene derivatives

DATE-ISSUED: August 8, 2000

## INVENTOR-INFORMATION:



NAME	CITY	STATE	ZIP CODE	COUNTRY
Fischer; Reiner	Monheim	N/A	N/A	DEX
Dumas; Jacques	Orange	CT	N/A	N/A
Bretschneider; Thomas	Lohmar	N/A	N/A	DEX
Gallenkamp; Bernd	Wuppertal	N/A	N/A	DEX
Lieb; Folker	Leverkusen	N/A	N/A	DEX
Wernthaler; Konrad	Kienberg	N/A	N/A	DEX
Erdelen; Christoph	Liechlingen	N/A	N/A	DEX
Wachendorff-Neumann; Ulrike	Neuwied	N/A	N/A	DEX
Mencke; Norbert	Leverkusen	N/A	N/A	DEX
Turberg; Andreas	Erkrath	N/A	N/A	DEX

# ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
<u>Bayer</u> Aktiengesellschaft	Leverkusen	N/A	N/A	N/A	03

APPL-NO: 9/ 339782  
DATE FILED: June 24, 1999

# PARENT-CASE:

This application is a division of application Ser. No. 09/089,945, filed Jun. 3, 1998 (now allowed); which is a division of application Ser. No. 08/836,336 filed May 9, 1997 (now U.S. Pat. No. 5,807,805).

# FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	44 40 899	November 17, 1994
DE	195 27 190	July 26, 1995

INT-CL: [7] A01N 43/10, A01N 43/06, A01N 43/12, C07D 333/56, C07D 409/00

US-CL-ISSUED: 504/289; 514/444, 514/443, 549/58, 549/60

US-CL-CURRENT: 504/289; 514/443, 514/444, 549/58, 549/60

FIELD-OF-SEARCH: 504/289, 514/444, 514/443, 549/58, 549/60

# REF-CITED:

## U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>5207817</u>	May 1993	Kramer et al.	N/A
<u>5258360</u>	November 1993	Anthony et al.	504/289
<u>5262383</u>	November 1993	Fischer et al.	N/A
<u>5726125</u>	March 1998	Phillion et al.	504/193
<u>5728696</u>	March 1998	Kuhn et al.	514/235.5
<u>5869427</u>	February 1999	Yoshikawa et al.	504/209

## FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
0 355 599	February 1990	EPX	
0 423 482	April 1991	EPX	
0 595 130	May 1994	EPX	
42 16 814	January 1993	DEX	
44 13 669	January 1995	DEX	
44 10 420	September 1995	DEX	

ART-UNIT: 163

PRIMARY-EXAMINER: Lambkin; Deborah C.

ATTY-AGENT-FIRM: Norris, McLaughlin & Marcus

# ABSTRACT:

The invention relates to novel thiophene derivatives of the formula (I) ##STR1## in which X

represents halogen, alkyl, alkoxy, alkylthio, halogenoalkyl, halogenoalkoxy, nitro or cyano, or two substituents X, together with the carbon atoms to which they are attached, form a saturated or unsaturated, optionally substituted ring,

n represents a number from 1 to 3, and

Z represents one of the groups ##STR2## in which A, B, D, G, Q.<sup>sup.1</sup>, Q.<sup>sup.2</sup> and Q.<sup>sup.3</sup> have the meaning given in the description, to processes for their preparation and to their use as pesticides and herbicides.

20 Claims, 0 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	MOOC	Draw Desc	Image
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☐ 9. Document ID: US 6071937 A

L8: Entry 9 of 66

File: USPT

Jun 6, 2000

US-PAT-NO: 6071937

DOCUMENT-IDENTIFIER: US 6071937 A

TITLE: Oxymethoxy-3-aryl-pyrone derivatives

DATE-ISSUED: June 6, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bretschneider; Thomas	Lohmar	N/A	N/A	DEX
Fischer; Reiner	Monheim	N/A	N/A	DEX
Lieb; Folker	Leverkusen	N/A	N/A	DEX
Hagemann; Hermann	Leverkusen	N/A	N/A	DEX
Ruther; Michael	Monheim	N/A	N/A	DEX
Stetter; Jorg	Wuppertal	N/A	N/A	DEX
Andersch; Wolfram	Bergisch Gladbach	N/A	N/A	DEX
Erdelen; Christoph	Leichlingen	N/A	N/A	DEX
Hanssler; Gerd	Leverkusen	N/A	N/A	DEX
Mencke; Norbert	Leverkusen	N/A	N/A	DEX
Stenzel; Klaus	Dusseldorf	N/A	N/A	DEX
Turberg; Andreas	Haan	N/A	N/A	DEX
Wachendorff-Neumann; Ulrike	Neuwied	N/A	N/A	DEX

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
<u>Bayer</u> Aktiengesellschaft	Leverkusen	N/A	N/A	DEX	03

APPL-NO: 9/ 077237

DATE FILED: May 22, 1998

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	194 44 457	November 29, 1995

PCT-DATA:

APPL-NO	DATE-FILED	PUB-NO	PUB-DATE	371-DATE	102(E)-DATE
PCT/EP96/05058	November 18, 1996	WO97/19941	Jun 5, 1997	May 22, 1998	May 22, 1998

INT-CL: [7] A01N 43/40, C07D 407/04

US-CL-ISSUED: 514/336; 546/282.1

US-CL-CURRENT: 514/336; 546/282.1

FIELD-OF-SEARCH: 514/336, 546/282.1

REF-CITED:

## U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>5393729</u>	February 1995	Fischer et al.	N/A

## FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
588 137	March 1994	EPX	

ART-UNIT: 162

PRIMARY-EXAMINER: Morris; Patricia L.

ATTY-AGENT-FIRM: Norris, McLaughlin &amp; Marcus, P.A.

## ABSTRACT:

The invention relates to novel oxymethoxy-3-aryl-pyrone derivatives of the formula (I) ##STR1## in which A, D, R.sup.1, R.sup.2, X, Y, Z and n have the meanings specified in the description; a process for their preparation and their use as pesticides, fungicides and herbicides.

5 Claims, 0 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw	Desc	Image
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☐ 10. Document ID: US 6051723 A

L8: Entry 10 of 66

File: USPT

Apr 18, 2000

US-PAT-NO: 6051723

DOCUMENT-IDENTIFIER: US 6051723 A

TITLE: 3-aryl-tetronic acid derivatives

DATE-ISSUED: April 18, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fischer; Reiner	Monheim	N/A	N/A	DEX
Bretschneider; Thomas	Lohmar	N/A	N/A	DEX
Beck; Gunther	Leverkusen	N/A	N/A	DEX
Hagemann; Hermann	Leverkusen	N/A	N/A	DEX
Erdelen; Christoph	Leichlingen	N/A	N/A	DEX
Wachendorff-Neumann; Ulrike	Neuwied	N/A	N/A	DEX
Andersch; Wolfram	Bergisch Gladbach	N/A	N/A	DEX
Mencke; Norbert	Leverkusen	N/A	N/A	DEX
Turberg; Andreas	Erkrath	N/A	N/A	DEX

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
<u>Bayer</u> Aktiengesellschaft	Leverkusen	N/A	N/A	DEX	03

APPL-NO: 9/ 133522

DATE FILED: August 13, 1998

## PARENT-CASE:

This application is a divisional of application Ser. No. 08/860,106, filed on Jun. 17, 1997 now U.S. Pat. No. 5,830,825, which is a 371 of PCT/EP95/04869 filed Dec. 11, 1995.

## FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	44 46 335	December 23, 1994
DE	195 40 736	November 2, 1995

INT-CL: [7] C07D 309/10, C07D 307/24  
 US-CL-ISSUED: 549/420; 549/28, 549/475, 546/227, 548/531  
 US-CL-CURRENT: 549/420; 546/227, 548/531, 549/28, 549/475  
 FIELD-OF-SEARCH: 546/227, 548/531, 549/28, 549/420, 549/475

REF-CITED:

#### U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>5262383</u>	November 1993	Fischer et al.	504/195

#### FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
0 528 156	February 1993	EPX	
0 647 637	April 1995	EPX	
0 668 267	August 1995	EPX	
92 589	May 1896	DEX	
3 913 757	October 1990	DEX	
WO 95 01971	January 1995	WOX	

#### OTHER PUBLICATIONS

Nazarov et al., The Journal of General Chemistry of the U.S.S.R., Oct. 1956, vol. 26, No. 10, pp. 3891-3898.  
 Unkovskii et al., Journal of General Chemistry of the USSR, Dec. 1960, vol. 30, No. 12, pp. 3883-3887.

ART-UNIT: 162  
 PRIMARY-EXAMINER: Dentz; Bernard  
 ATTY-AGENT-FIRM: Norris, McLaughlin & Marcus, P.A.

#### ABSTRACT:

The present invention relates to new 3-aryl-4-hydroxy-.DELTA..sup.3 -dihydrofuranone derivatives of the formula (I) ##STR1## in which A and B together with the carbon atom to which they are bonded form an unsubstituted or substituted 5- to 7-membered ring which is interrupted by at least one hetero atom,

X represents alkyl, halogen or alkoxy,

Y represents hydrogen, alkyl, halogen, alkoxy or halogenoalkyl,

Z represents alkyl, halogen or alkoxy,

n represents a number 0, 1, 2 or 3,

G represents hydrogen (a) or one of the groups ##STR2## E represents a metal ion equivalent or an ammonium ion, L represents oxygen or sulphur,

M represents oxygen or sulphur and

R.sup.1, R.sup.2, R.sup.3, R.sup.4, R.sup.5, R.sup.6 and R.sup.7 have the meanings given in the description, to processes for their preparation, and to their use as pesticides.

2 Claims, 0 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	RMIC	Draw Desc	Image
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Generate Collection

Terms	Documents
17 and (acetonitrile or methylcyano)	66

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10

Documents, starting with Document:

11

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Search Results - Record(s) 11 through 20 of 66 returned.

☐ 11. Document ID: US 6025383 A

L8: Entry 11 of 66

File: USPT

Feb 15, 2000

US-PAT-NO: 6025383

DOCUMENT-IDENTIFIER: US 6025383 A

TITLE: Substituted thiophene derivatives as pesticides and herbicides

DATE-ISSUED: February 15, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fischer; Reiner	Monheim	N/A	N/A	DEX
Dumas; Jacques	Orange	CT	N/A	N/A
Bretschneider; Thomas	Lohmar	N/A	N/A	DEX
Gallenkamp; Bernd	Wuppertal	N/A	N/A	DEX
Lieb; Folker	Leverkusen	N/A	N/A	DEX
Wernthaler; Konrad	Kienberg	N/A	N/A	DEX
Erdelen; Christoph	Leichlingen	N/A	N/A	DEX
Wachendorff-Neumann; Ulrike	Neuwied	N/A	N/A	DEX
Mencke; Norbert	Leverkusen	N/A	N/A	DEX
Turberg; Andreas	Erkrath	N/A	N/A	DEX

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
<u>Bayer</u> Aktiengesellschaft	Leverkusen	N/A	N/A	DEX	03

APPL-NO: 9/ 089945

DATE FILED: June 3, 1998

## PARENT-CASE:

This application is a division of Ser. No. 08/836,336 filed May 9, 1997, now U.S. Pat. No. 5,807,805, which is a 371 of PCT/EP95/04355, filed Nov. 6, 1995.

## FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	44 40 899	November 17, 1994
DE	195 27 190	July 26, 1995

INT-CL: [7] A01N 43/36, C07D 409/00, C07D 333/22, C07D 333/38

US-CL-ISSUED: 514/422; 548/527, 549/71, 549/72, 549/73

US-CL-CURRENT: 514/422; 548/527, 549/71, 549/72, 549/73

FIELD-OF-SEARCH: 514/422, 548/527, 549/71, 549/72, 549/73

## REF-CITED:

## U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>5207817</u>	May 1993	Kramer et al.	N/A
<u>5262383</u>	November 1993	Fischer et al.	N/A

## FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
0 355 599	February 1990	EPX	
0 423 482	April 1991	EPX	
0 595 130	May 1994	EPX	
42 16 814	January 1993	DEX	
44 13 669	January 1995	DEX	
44 10 420	September 1995	DEX	

ART-UNIT: 163  
 PRIMARY-EXAMINER: Lambkin; Deborah C.  
 ATTY-AGENT-FIRM: Sprung Kramer Schaefer & Briscoe

ABSTRACT:

The invention relates to novel thiophene derivatives of the formula (I) ##STR1## in which X represents halogen, alkyl, alkoxy, alkylthio, halogenoalkyl, halogenoalkoxy, nitro or cyano, or two substituents X, together with the carbon atoms to which they are attached, form a saturated or unsaturated, optionally substituted ring,

n represents a number from 1 to 3, and

Z represents one of the groups ##STR2## in which A, B, D, G, Q.sup.1, Q.sup.2 and Q.sup.3 have the meaning given in the description, to processes for their preparation and to their use as pesticides and herbicides.

19 Claims, 0 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 12. Document ID: US 6013664 A

L8: Entry 12 of 66

File: USPT

Jan 11, 2000

US-PAT-NO: 6013664  
 DOCUMENT-IDENTIFIER: US 6013664 A

TITLE: Microbicidal agents based on thiophene-2-carboxylic acid derivatives

DATE-ISSUED: January 11, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fischer; Reiner	Monheim	N/A	N/A	DEX
Lui; Norbert	Koln	N/A	N/A	DEX
Dutzmann; Stefan	Langenfeld	N/A	N/A	DEX
Hanssler; Gerd	Leverkusen	N/A	N/A	DEX

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
<u>Bayer</u> Aktiengesellschaft	Leverkusen	N/A	N/A	DEX	03

APPL-NO: 9/ 308903  
 DATE FILED: May 26, 1999

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	196 49 093	November 27, 1996

PCT-DATA:

APPL-NO	DATE-FILED	PUB-NO	PUB-DATE	371-DATE	102 (E) -DATE
PCT/EP97/06368	November 14, 1997	WO98/23605	Jun 4, 1998	May 26, 1999	May 26, 1999

INT-CL: [6] A61K 31/38, A61K 31/535  
US-CL-ISSUED: 514/448; 514/231.5, 544/146, 549/70, 549/71, 549/72, 549/73  
US-CL-CURRENT: 514/448; 514/231.5, 544/146, 549/70, 549/71, 549/72, 549/73  
FIELD-OF-SEARCH: 544/146, 549/70, 549/71, 549/72, 549/73, 514/231.5, 514/448

REF-CITED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>5484807</u>	January 1996	Barnes et al.	514/424

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
450355	October 1991	EPX	
538231	April 1993	EPX	
WO95/27397	October 1995	WOX	

OTHER PUBLICATIONS

Arnaud, R et al Reactivity of Trifluoromethyl Erones in Michael Additions CA 123:168968, 1995.

ART-UNIT: 162

PRIMARY-EXAMINER: Owens; Amelia

ATTY-AGENT-FIRM: Gil; Joseph C. Marmo; Carol

ABSTRACT:

Novel microbicidal compositions based on thiophene-2-carboxylic acid derivatives, some of which are known, of the formula in which

R.sup.1, R.sup.2 and n have the meanings given in the description, and the use of these substances for controlling undesired microorganisms.

Novel thiophene-2-carboxylic acid derivatives of the formula ##STR1## in which R.sup.1, R.sup.2 and p have the meanings given in the description, and a process for the preparation of the substances of the formula (I-a).

8 Claims, 0 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	FORMC	Draw Desc	Image
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☐ 13. Document ID: US 5994274 A

L8: Entry 13 of 66

File: USPT

Nov 30, 1999

US-PAT-NO: 5994274

DOCUMENT-IDENTIFIER: US 5994274 A

TITLE: Dialkyl phenyl halide-substituted keto-enols for use as herbicides and pesticides

DATE-ISSUED: November 30, 1999

INVENTOR-INFORMATION:



NAME	CITY	STATE	ZIP CODE	COUNTRY
Fischer; Reiner	Monheim	N/A	N/A	DEX
Bretschneider; Thomas	Lohmar	N/A	N/A	DEX
Hagemann; Hermann	Leverkusen	N/A	N/A	DEX
Lieb; Folker	Leverkusen	N/A	N/A	DEX
Ruther; Michael	Monheim	N/A	N/A	DEX
Widdig; Arno	Odenthal	N/A	N/A	DEX
Dahmen; Peter	Neuss	N/A	N/A	DEX
Dollinger; Markus	Leverkusen	N/A	N/A	DEX
Erdelen; Christoph	Leichlingen	N/A	N/A	DEX
Santel; Hans-Joachim	Leverkusen	N/A	N/A	DEX
Wachendorff-Neumann; Ulrike	Neuwied	N/A	N/A	DEX
Graff; Alan	Koln	N/A	N/A	DEX
Andersch; Wolfram	Bergisch Gladbach	N/A	N/A	DEX

# ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
<u>Bayer</u> Aktiengesellschaft	Leverkusen	N/A	N/A	DEX	03

APPL-NO: 8/ 981610  
DATE FILED: December 23, 1997

# PARENT-CASE:

This application is a 371 of PCT/EP96/02601, filed Jun. 17, 1996.

# FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	195 23 850	June 30, 1995
DE	195 03 332	January 31, 1996

# PCT-DATA:

APPL-NO	DATE-FILED	PUB-NO	PUB-DATE	371-DATE	102 (E) -DATE
PCT/EP96/02601	June 17, 1996	WO97/02243	Jan 23, 1997	Dec 23, 1997	Dec 23, 1997

INT-CL: [6] A01N 43/36, A01N 43/56, C07D 207/333, C07D 231/36

US-CL-ISSUED: 504/282; 504/221, 504/246, 504/281, 504/283, 504/284, 514/224.2, 514/299, 514/404, 514/405, 514/409, 514/411, 514/413, 514/425, 544/47, 546/183, 548/359.1, 548/363.1, 548/366.4, 548/408, 548/544

US-CL-CURRENT: 504/282; 504/221, 504/246, 504/281, 504/283, 504/284, 514/224.2, 514/299, 514/404, 514/405, 514/409, 514/411, 514/413, 514/425, 544/47, 546/183, 548/359.1, 548/363.1, 548/366.4, 548/408, 548/544

FIELD-OF-SEARCH: 548/366.4, 548/544, 548/408, 504/282, 504/283, 504/221, 504/246, 514/404, 514/425, 514/224.2, 514/299, 514/409, 546/183, 544/47

# REF-CITED:

## U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>5142065</u>	August 1992	Fischer et al.	548/533
<u>5258527</u>	November 1993	Krauskoph et al.	548/543
<u>5262383</u>	November 1993	Fischer et al.	504/195
<u>5393729</u>	February 1995	Fischer et al.	504/128
<u>5462913</u>	October 1995	Fischer et al.	504/138
<u>5508436</u>	April 1996	Fischer et al.	548/544
<u>5565450</u>	October 1996	Fischer et al.	514/227.2
<u>5567671</u>	October 1996	Fischer et al.	504/283

## FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
0 456 063	November 1991	EPX	
0 528 156	February 1993	EPX	
0 588 137	March 1994	EPX	
0 596 298	May 1994	EPX	
0 595 130	May 1994	EPX	
WO 95/01971	January 1995	WOX	

ART-UNIT: 161  
 PRIMARY-EXAMINER: Raymond; Richard L.  
 ATTY-AGENT-FIRM: Sprung Kramer Schaefer & Briscoe

ABSTRACT:

The present invention relates to new compounds of the formula (I) ##STR1## in which X represents alkyl,

Y represents halogen or alkyl and

Z represents halogen or alkyl,

with the proviso that one of the radicals Y and Z always represents halogen and the other alkyl,

Het represents one of the groups ##STR2## in which A, B, D and G have the meanings given in the description,

a plurality of processes for their preparation and their use as pesticides and herbicides.

9 Claims, 0 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	K00C	Draw Desc	Image
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☐ 14. Document ID: US 5990140 A

L8: Entry 14 of 66

File: USPT

Nov 23, 1999

US-PAT-NO: 5990140  
 DOCUMENT-IDENTIFIER: US 5990140 A

TITLE: Substituted oxazolines of the formula (I)

DATE-ISSUED: November 23, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kramer; Wolfgang	Burscheid	N/A	N/A	DEX
Fischer; Reiner	Monheim	N/A	N/A	DEX
Holmwood; Graham	Wuppertal	N/A	N/A	DEX
Hagemann; Hermann	Leverkusen	N/A	N/A	DEX
Wachendorff-Neumann; Ulrike	Neuwied	N/A	N/A	DEX
Erdelen; Christoph	Leichlingen	N/A	N/A	DEX
Turberg; Andreas	Erkrath	N/A	N/A	DEX
Mencke; Norbert	Leverkusen	N/A	N/A	DEX

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
<u>Bayer</u> Aktiengesellschaft	Leverkusen	N/A	N/A	DEX	03

APPL-NO: 8/ 669501  
 DATE FILED: July 10, 1996

PARENT-CASE:

This application is a 371 of PCT/EP95/00021, filed Jan. 4, 1995.

## FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	44 01 099	January 17, 1994

## PCT-DATA:

APPL-NO	DATE-FILED	PUB-NO	PUB-DATE	371-DATE	102(E)-DATE
PCT/EP95/00021	January 4, 1995	WO95/19349	Jul 20, 1995	Jul 10, 1996	Jul 10, 1996

INT-CL: [6] A01N 43/76, C07D 263/10, C07D 263/12, C07D 263/14

US-CL-ISSUED: 514/374; 548/237, 548/238, 548/239

US-CL-CURRENT: 514/374; 548/237, 548/238, 548/239

FIELD-OF-SEARCH: 514/374, 548/237, 548/239, 548/238

## REF-CITED:

## U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>2372409</u>	March 1945	Tryon	548/237
<u>3777031</u>	December 1973	Chen et al.	514/374
<u>3901906</u>	August 1975	Kozlik	260/307F
<u>4045447</u>	August 1977	Arlt	548/237
<u>4216162</u>	August 1980	Arlt	548/237
<u>5807877</u>	September 1998	Lantzsh et al.	514/374

## FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
0345775	December 1989	EPX	

## OTHER PUBLICATIONS

English Abstract of JO 2235-874-A, Pharmaceuticals, p.27, Week 9043 (1990).

English Abstract of J 5 7058-641, Pharmaceuticals, p.3, Week E20 (1980).

English translation of the claims of JO 2235-872-A.

English translation of the claims of J 5 7058-641.

English translation of Japanese Patent 2235872.

Puesen et al. Chem. Abstr. vol. 120 p. 1049, entry 217380e, 1994.

Michelo et al. Chem. Abstr. vol. 118, p. 749 entry 255223f, 1992.

Umezawa et al. Chem. Abstr. vol. 116, p. 820 entry 83659j, 1992.

Toshimitsu et al. Chem. Abstr. vol. 114, p. 798 entry 122355n, 1991.

Kurth et al. Chem. Abstr. vol. 102, p. 565 entry 45822k, 1985.

Shibata et al. Chem Abstr vol. 98, p. 566 entry 106914, 1983.

Japan Tobacco Chem Abstr vol. 97, p. 581 entry 109704, 1982.

Bates et al. Chem. Abstr. vol. 94, p. 432 entry 15626, 1981.

Harder et al. Chem Abstr. vol. 125 entry 317321, 1996.

ART-UNIT: 161

PRIMARY-EXAMINER: Shah; Mukund J.

ASSISTANT-EXAMINER: Coleman; Brenda

ATTY-AGENT-FIRM: Sprung Kramer Schaefer &amp; Briscoe

## ABSTRACT:

The invention relates to novel substituted oxazolines of the formula (I) ##STR1## in which A, B, D, E and G have the meaning given in the description,

to a number of processes for their preparation and to their use as agents for combating pests.

6 Claims, 0 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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US-PAT-NO: 5981567

DOCUMENT-IDENTIFIER: US 5981567 A

TITLE: Substituted spiroheterocyclic 1h-3-aryl-pyrrolidine-2,4-dione derivatives and their use as pesticides

DATE-ISSUED: November 9, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fischer; Reiner	Monheim	N/A	N/A	DEX
Bretschneider; Thomas	Lohmar	N/A	N/A	DEX
Kruger; Bernd-Wieland	Bergisch Gladbach	N/A	N/A	DEX
Santel; Hans-Joachim	Leverkusen	N/A	N/A	DEX
Dollinger; Markus	Leverkusen	N/A	N/A	DEX
Erdelen; Christoph	Leichlingen	N/A	N/A	DEX
Wachendorff-Neumann; Ulrike	Neuwied	N/A	N/A	DEX

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
<u>Bayer</u> Aktiengesellschaft	Leverkusen	N/A	N/A	DEX	03

APPL-NO: 8/ 578519

DATE FILED: December 28, 1995

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	43 22 052	July 2, 1993
DE	44 00 223	January 7, 1994
DE	44 15 334	May 2, 1994

PCT-DATA:

APPL-NO	DATE-FILED	PUB-NO	PUB-DATE	371-DATE	102(E)-DATE
PCT/EP94/01997	June 20, 1994	WO95/01358	Jan 12, 1995	Dec 28, 1995	Dec 28, 1995

INT-CL: [6] A01N 43/90, C07D 491/107

US-CL-ISSUED: 514/409; 514/91, 548/410, 548/413

US-CL-CURRENT: 514/409; 514/91, 548/410, 548/413

FIELD-OF-SEARCH: 548/410, 548/413, 504/283, 504/196, 514/409, 514/91

REF-CITED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>5258527</u>	November 1993	Krauskopf et al.	548/543
<u>5462913</u>	October 1995	Fischer et al.	504/138

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
0456063	November 1991	EPX	
0521334	January 1993	EPX	
0595130	May 1994	EPX	
0596298	May 1994	EPX	
0163884	September 1994	EPX	

OTHER PUBLICATIONS

ART-UNIT: 162

PRIMARY-EXAMINER: Morris; Patricia L.

ATTY-AGENT-FIRM: Sprung Kramer Schaefer & Briscoe

ABSTRACT:

The invention concerns substituted spiroheterocyclic 1H-3-arylpyrrolidine-2,4-dione derivatives of formula (I) in which A and B together with the carbon atom to which they are bound, are an unsubstituted or substituted 5- or 6-membered ring including at least one hetero atom; X is alkyl, halogen or alkoxy; Y is hydrogen, alkyl, halogen, alkoxy or alkyl halide; Z is alkyl, halogen or alkoxy; n is 0, 1, 2 or 3; G is hydrogen (a) or one of the groups (b), (c), (d), (e), (f) or (g), E is a metal-ion equivalent or an ammonium ion; L and M are each oxygen or sulphur and R.sup.1, R.sup.2, R.sup.3, R.sup.4, R.sup.5, R.sup.6 and R.sup.7 are as defined in the description. The invention also concerns methods of preparing such compounds as well as intermediates of formula (XVII) and (II) in which A, B, X, Y, Z and n are as defined in claim 1 and R.sup.8 is alkyl. Compounds of formula (I) are suitable for use as pest-control agents. ##STR1##

11 Claims, 0 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 16. Document ID: US 5977029 A

L8: Entry 16 of 66

File: USPT

Nov 2, 1999

US-PAT-NO: 5977029

DOCUMENT-IDENTIFIER: US 5977029 A

TITLE: 3-aryl-5-halogen-pyrone derivatives as pest control agents

DATE-ISSUED: November 2, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fischer; Reiner	Monheim	N/A	N/A	DEX
Lieb; Folker	Leverkusen	N/A	N/A	DEX
Ruther; Michael	Monheim	N/A	N/A	DEX
Stetter; Jorg	Wuppertal	N/A	N/A	DEX
Dollinger; Markus	Leverkusen	N/A	N/A	DEX
Erdelen; Christoph	Leichlingen	N/A	N/A	DEX
Mencke; Norbert	Leverkusen	N/A	N/A	DEX
Santel; Hans-Joachim	Leverkusen	N/A	N/A	DEX
Turberg; Andreas	Erkrath	N/A	N/A	DEX
Wachendorff-Neumann; Ulrike	Neuwied	N/A	N/A	DEX

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
<u>Bayer</u> Aktiengesellschaft	Leverkusen	N/A	N/A	DEX	03

APPL-NO: 9/ 051881

DATE FILED: April 20, 1998

PARENT-CASE:

This application is a 371 of PCT/E96/04475 filed Oct. 15, 1996.

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	195 40 080	October 27, 1995

PCT-DATA:

APPL-NO                      DATE-FILED                      PUB-NO                      PUB-DATE                      371-DATE                      102(E)-DATE  
PCT/EP96/04475    October 15, 1996    WO97/16436    May 9, 1997    Apr 20, 1998    Apr 20, 1998

INT-CL: [6] A01N 43/14, C07D 309/30  
US-CL-ISSUED: 504/292; 549/291, 549/293, 549/292, 549/416  
US-CL-CURRENT: 504/292; 549/291, 549/292, 549/293, 549/416  
FIELD-OF-SEARCH: 549/291, 549/292, 549/293, 549/416, 504/292

REF-CITED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>5393729</u>	February 1995	Fischer et al.	504/128

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
0 588 137	March 1994	EPX	

ART-UNIT: 162  
PRIMARY-EXAMINER: Owens; Amelia  
ATTY-AGENT-FIRM: Sprung Kramer Schaefer & Briscoe

ABSTRACT:

The invention relates to novel 3-aryl-5-halogeno-pyrone derivatives of the formula (I) ##STR1## in which A, D, G, X, Y, Z and n are each as defined in the description,  
to a plurality of processes and intermediates for their preparation and to their use as pesticides and herbicides.

7 Claims, 0 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 17. Document ID: US 5945444 A

L8: Entry 17 of 66

File: USPT

Aug 31, 1999

US-PAT-NO: 5945444  
DOCUMENT-IDENTIFIER: US 5945444 A

TITLE: 3-aryl-4-hydroxy-.DELTA..sup.3 -dihydrothiophenone derivatives

DATE-ISSUED: August 31, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fischer; Reiner	Monheim	N/A	N/A	DEX
Dumas; Jacques	Koln	N/A	N/A	DEX
Bretschneider; Thomas	Lohmar	N/A	N/A	DEX
Erdelen; Christoph	Leichlingen	N/A	N/A	DEX
Wachendorff-Neumann; Ulrike	Neuwied	N/A	N/A	DEX

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
<u>Bayer</u> Aktiengesellschaft	Leverkusen	N/A	N/A	DEX	03

APPL-NO: 8/ 716361  
DATE FILED: September 18, 1996

PARENT-CASE:

This application is a 371 of PCT/EP95/00953 filed Mar. 14, 1995.

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	44 10 420	March 25, 1994

PCT-DATA:

APPL-NO	DATE-FILED	PUB-NO	PUB-DATE	371-DATE	102(E)-DATE
PCT/EP95/00953	March 14, 1995	WO95/26345	Oct 5, 1995	Sep 18, 1996	Sep 18, 1996

INT-CL: [6] A01N 43/10, C07D 333/32  
US-CL-ISSUED: 514/445; 549/62, 549/65, 549/66  
US-CL-CURRENT: 514/445; 549/62, 549/65, 549/66  
FIELD-OF-SEARCH: 549/62, 549/65, 549/66, 514/445

REF-CITED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>5262383</u>	November 1993	Fischer et al.	504/195

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
0 528 156	February 1993	EPX	

OTHER PUBLICATIONS

J.Chem.Soc., Chemical Communications, No. 16, 1987, Letchworth GB, pp. 1228-1230, Chambers et al. "An Asymmetric Synthesis . . . Rearrangement."  
J.of Antibiotics, vol. 36, No. 11, 1983, pp. 1589-1591, Tsuzuki et al. "Biological Activities of thiotetromycin Analogs".

ART-UNIT: 162

PRIMARY-EXAMINER: Morris; Patricia L.

ATTY-AGENT-FIRM: Sprung Kramer Schaefer & Briscoe

ABSTRACT:

The present invention relates to novel 3-aryl-4-hydroxy- $\Delta^3$ -dihydrothiophenone derivatives of the formula (I) ##STR1## in which A, B, G, S, X, Y, Z and n have the meaning given in the description, to processes for their preparation, to novel intermediates and to the use of the compounds of the formula (I) as agents for controlling pests.

11 Claims, 0 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWMC	Draw Desc	Image
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☐ 18. Document ID: US 5847211 A

L8: Entry 18 of 66

File: USPT

Dec 8, 1998

US-PAT-NO: 5847211

DOCUMENT-IDENTIFIER: US 5847211 A

TITLE: Substituted 1H-3-Aryl-pyrrolidine-2,4-dione derivatives

DATE-ISSUED: December 8, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fischer; Reiner	Monheim	N/A	N/A	DEX
Bretschneider; Thomas	Lohmar	N/A	N/A	DEX
Kruger; Bernd-Wieland	Bergisch Gladbach	N/A	N/A	DEX
Ruther; Michael	Monheim	N/A	N/A	DEX
Erdelen; Christoph	Leichlingen	N/A	N/A	DEX
Wachendorff-Neumann; Ulrike	Monheim	N/A	N/A	DEX
Santel; Hans-Joachim	Leverkusen	N/A	N/A	DEX
Dollinger; Markus	Leverkusen	N/A	N/A	DEX

# ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
<u>Bayer</u> Aktiengesellschaft	Leverkusen	N/A	N/A	DEX	03

APPL-NO: 8/ 759352

DATE FILED: December 3, 1996

# PARENT-CASE:

This application is a divisional application of U.S. application Ser. No. 08/383,801 filed on Feb. 3, 1995, now U.S. Pat. No. 5,622,917.

# FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	44 04 001.6	February 9, 1994
DE	44 31 730.1	September 6, 1994

INT-CL: [6] C07C 233/00

US-CL-ISSUED: 564/123

US-CL-CURRENT: 564/123

FIELD-OF-SEARCH: 564/123

# REF-CITED:

## FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
0 613 885	September 1974	EPX	
0 377 893	July 1990	EPX	
0 456 063	November 1991	EPX	
456063	November 1991	EPX	
0 521 334	January 1993	EPX	
0 595 130	May 1994	EPX	
0 596 298	May 1994	EPX	
0 613 884	September 1994	EPX	
9 401 401	January 1994	WOX	

## OTHER PUBLICATIONS

Takahashi et al., "Agricultural and Horticultural Herbicides . . . ", Chem. Abs., vol. 82 (1975), p. 175, Abstract #27233.

ART-UNIT: 161

PRIMARY-EXAMINER: Raymond; Richard L.

ASSISTANT-EXAMINER: Ngo; Tamthom T.

ATTY-AGENT-FIRM: Sprung Kramer Schaefer & Briscoe

# ABSTRACT:

The invention relates to new 1H-3-aryl-pyrrolidine-2,4-dione derivatives of the formula (I) ##STR1## in which A, B, X, Y and G have the meanings given in the description,

to a plurality of processes for their preparation, and to their use as pesticides.

7 Claims, 0 Drawing figures



□ 19. Document ID: US 5840661 A

L8: Entry 19 of 66

File: USPT

Nov 24, 1998

US-PAT-NO: 5840661

DOCUMENT-IDENTIFIER: US 5840661 A

TITLE: 2-aryl cyclopentane-1,3-dione derivatives

DATE-ISSUED: November 24, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fischer; Reiner	Monheim	N/A	N/A	DEX
Dumas; Jacques	Koln	N/A	N/A	DEX
Bretschneider; Thomas	Lohmar	N/A	N/A	DEX
Erdelen; Christoph	Leichlingen	N/A	N/A	DEX
Wachendorff-Neumann; Ulrike	Neuwied	N/A	N/A	DEX
Santel; Hans-Joachim	Leverkusen	N/A	N/A	DEX
Dollinger; Markus	Leverkusen	N/A	N/A	DEX
Turberg; Andreas	Erkrath	N/A	N/A	DEX
Mencke; Norbert	Leverkusen	N/A	N/A	DEX

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
<u>Bayer</u> Aktiengesellschaft	Leverkusen	N/A	N/A	DEX	03

APPL-NO: 8/ 765429

DATE FILED: December 31, 1996

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	44 23 943.2	July 7, 1994
DE	195 02 815.5	January 30, 1995
DE	195 18 962.0	May 23, 1995

PCT-DATA:

APPL-NO	DATE-FILED	PUB-NO	PUB-DATE	371-DATE	102(E)-DATE
PCT/EP95/02482	June 26, 1995	WO96/01798	Jan 25, 1996	Dec 31, 1996	Dec 31, 1996

INT-CL: [6] A01N 35/06, C07C 49/395, C07C 49/297

US-CL-ISSUED: 504/348; 504/306, 504/307, 504/308, 504/309, 504/310, 504/314, 514/478, 514/512, 514/513, 514/520, 514/683, 514/684, 558/70, 558/194, 560/24, 560/29, 560/107, 560/179, 560/205, 560/302, 568/309, 568/310, 568/326, 568/327, 568/328, 568/329, 568/330

US-CL-CURRENT: 507/236; 166/279, 166/305.1, 507/237, 507/238

FIELD-OF-SEARCH: 568/309, 568/310, 568/330, 568/326, 568/327, 568/328, 568/329, 514/684, 514/683, 514/512, 514/513, 514/520, 514/478, 504/306, 504/307, 504/308, 504/309, 504/310, 504/314, 504/348, 558/70, 558/194, 560/24, 560/29, 560/107, 560/179, 560/205, 560/302

REF-CITED:.

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>4283348</u>	August 1981	Wheeler	568/314
<u>4436666</u>	March 1984	Wheeler	568/327
<u>4551547</u>	November 1985	Wheeler	560/255

ART-UNIT: 161

ABSTRACT:

The present invention relates to novel 2-aryl-3-hydroxy-cyclopent-2-en-1-one derivatives of the formula (I) ##STR1## in which X represents halogen, nitro, cyano, alkyl, alkoxy, alkenyloxy, alkylthio, alkylsulphinyl, alkylsulphonyl, halogenoalkyl or halogenoalkoxy,

Y represents hydrogen, halogen, nitro, cyano, alkyl, alkoxy, alkenyloxy, alkylthio, alkylsulphinyl, alkylsulphonyl, halogenoalkyl or halogenoalkoxy,

Z represents halogen, nitro, cyano, alkyl, alkoxy or halogenoalkoxy and

A, B, D.sup.1, D.sup.2, G and n have the meaning given in the description,

several processes for their preparation and their use as compositions for controlling pests and as herbicides.

10 Claims, 0 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 20. Document ID: US 5830826 A

L8: Entry 20 of 66

File: USPT

Nov 3, 1998

US-PAT-NO: 5830826

DOCUMENT-IDENTIFIER: US 5830826 A

TITLE: Alkoxy-alkyl-substituted 1H-3-aryl-pyrrolidine-2, 4-diones used as herbicides and pesticides

DATE-ISSUED: November 3, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fischer; Reiner	Monheim	N/A	N/A	DEX
Bretschneider; Thomas	Lohmar	N/A	N/A	DEX
Kruger; Bernd-Wieland	Bergisch Gladbach	N/A	N/A	DEX
Ruther; Michael	Monheim	N/A	N/A	DEX
Erdelen; Christoph	Leichlingen	N/A	N/A	DEX
Wachendorff-Neumann; Ulrike	Neuwied	N/A	N/A	DEX
Santel; Hans-Joachim	Leverkusen	N/A	N/A	DEX
Dollinger; Markus	Leverkusen	N/A	N/A	DEX

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
<u>Bayer</u> Aktiengesellschaft	Leverkusen	N/A	N/A	DEX	03

APPL-NO: 8/ 716200

DATE FILED: September 27, 1996

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	44 11 669.1	April 5, 1994
DE	44 40 594.4	November 14, 1994

PCT-DATA:

APPL-NO	DATE-FILED	PUB-NO	PUB-DATE	371-DATE	102 (E) -DATE
PCT/EP95/01100	March 23, 1995	WO95/26954	Oct 12, 1995	Sep 27, 1996	Sep 27, 1996

INT-CL: [6] A01N 43/36, A61K 31/40, C07D 207/08

US-CL-ISSUED: 504/195; 504/283, 514/91, 514/409, 514/425, 548/408, 548/413, 548/544

US-CL-CURRENT: 504/195; 504/283, 514/409, 514/425, 514/91, 548/408, 548/413, 548/544

US-CL-CURRENT: 504/195, 504/205, 514/409, 514/425, 514/71, 540/400, 540/415, 540/544  
FIELD-OF-SEARCH: 548/408, 548/413, 548/544, 514/91, 514/409, 514/425, 504/195, 504/283

REF-CITED:

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
456 063 A2	November 1991	EPX	
0 521 334	January 1993	EPX	

ART-UNIT: 191  
PRIMARY-EXAMINER: McKane; Joseph K.  
ATTY-AGENT-FIRM: Sprung Kramer Schaefer & Briscoe

ABSTRACT:

The present invention relates to novel 1H-3-aryl-pyrrolidine-2,4-dione derivatives of the formula (I) ##STR1## in which A, B, G, X, Y and Z have the meaning given in the description, to processes for their preparation and to intermediates for this purpose. The compounds of the formula (I) are used as pesticides and herbicides.

10 Claims, 0 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMIC	Draw Desc	Image
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Generate Collection

Terms	Documents
17 and (acetonitrile or methylcyano)	66

Display

10

Documents, starting with Document:

21

Display Format:

FRO

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## Generate Collection

Search Results - Record(s) 21 through 30 of 66 returned.

☐ 21. Document ID: US 5830825 A

L8: Entry 21 of 66

File: USPT

Nov 3, 1998

US-PAT-NO: 5830825

DOCUMENT-IDENTIFIER: US 5830825 A

TITLE: 3-aryl-tetronic acid derivatives, the production thereof and the use thereof as antiparasitic agents

DATE-ISSUED: November 3, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fischer; Reiner	Monheim	N/A	N/A	DEX
Bretschneider; Thomas	Lohmar	N/A	N/A	DEX
Beck; Gunther	Leverkusen	N/A	N/A	DEX
Hagemann; Hermann	Leverkusen	N/A	N/A	DEX
Erdelen; Christoph	Leichlingen	N/A	N/A	DEX
Wachendorff-Neumann; Ulrike	Neuwied	N/A	N/A	DEX
Andersch; Wolfram	Bergisch Gladbach	N/A	N/A	DEX
Mencke; Norbert	Leverkusen	N/A	N/A	DEX
Turberg; Andreas	Erkrath	N/A	N/A	DEX

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
<u>Bayer</u> Aktiengesellschaft	Leverkusen	N/A	N/A	DEX	03

APPL-NO: 8/ 860106

DATE FILED: June 17, 1997

## FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	44 46 335.9	December 23, 1994
DE	195 40 736.9	November 2, 1995

## PCT-DATA:

APPL-NO	DATE-FILED	PUB-NO	PUB-DATE	371-DATE	102 (E) -DATE
PCT/EP95/04869	December 11, 1995	WO96/20196	Jul 4, 1996	Jun 17, 1997	Jun 17, 1997

INT-CL: [6] C07D 493/10, C07D 495/10, C07D 491/107, A01N 43/08

US-CL-ISSUED: 504/130; 504/129, 504/140, 546/16, 546/19, 548/300.7, 548/410, 549/13, 549/22, 549/39, 549/60, 549/265, 544/230

US-CL-CURRENT: 504/130; 504/129, 504/140, 544/230, 546/16, 546/19, 548/300.7, 548/410, 549/13, 549/22, 549/265, 549/39, 549/60

FIELD-OF-SEARCH: 549/265, 549/13, 549/60, 546/16, 504/129, 504/130, 504/140

## REF-CITED:

## U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>5262383</u>	November 1993	Fischer et al.	504/251

## FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO  
3913757 A1

PUBN-DATE  
October 1990

COUNTRY  
DEX

US-CL

ART-UNIT: 162  
PRIMARY-EXAMINER: Dentz; Bernard  
ATTY-AGENT-FIRM: Sprung Kramer Schaefer & Briscoe

ABSTRACT:

The present invention relates to new 3-aryl-4-hydroxy-.DELTA..<sup>3</sup> -dihydrofuranone derivatives of the formula (I) ##STR1## in which A and B together with the carbon atom to which they are bonded form an unsubstituted or substituted 5- to 7-membered ring which is interrupted by at least one hetero atom,

X represents alkyl, halogen or alkoxy,

Y represents hydrogen, alkyl, halogen, alkoxy or halogenoalkyl,

Z represents alkyl, halogen or alkoxy,

n represents a number 0, 1, 2 or 3,

G represents hydrogen (a) or one of the groups ##STR2## E represents a metal Ion equivalent or an ammonium ion, L represents oxygen or sulphur,

M represents oxygen or sulphur and

R.<sup>1</sup>, R.<sup>2</sup>, R.<sup>3</sup>, R.<sup>4</sup>, R.<sup>5</sup>, R.<sup>6</sup> and R.<sup>7</sup> have the meanings given in the description, to processes for their preparation, and to their use as pesticides.

8 Claims, 0 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 22. Document ID: US 5811374 A

L8: Entry 22 of 66

File: USPT

Sep 22, 1998

US-PAT-NO: 5811374  
DOCUMENT-IDENTIFIER: US 5811374 A

TITLE: 3-aryl-pyrrolidine-2,4-dione derivatives

DATE-ISSUED: September 22, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bertram; Heinz-Jurgen	Holzminden	N/A	N/A	DEX
Fischer; Reiner	Monheim	N/A	N/A	DEX
Kruger; Bernd-Wieland	Bergisch Gladbach	N/A	N/A	DEX
Erdelen; Christoph	Leichlingen	N/A	N/A	DEX
Lurssen; Klaus	Bergisch Gladbach	N/A	N/A	DEX
Schmidt; Robert R.	Bergisch Gladbach	N/A	N/A	DEX
Santel; Hans-Joachim	Leverkusen	N/A	N/A	DEX

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
<u>Bayer</u> Aktiengesellschaft	Leverkusen	N/A	N/A	DEX	03

APPL-NO: 8/ 483340  
DATE FILED: June 7, 1995

PARENT-CASE:

This is a Continuation-in-Part of application Ser. No. 07/652,348, filed Feb. 7, 1991, now

abandoned.

INT-CL: [6] A01N 43/36, C07D 487/08

US-CL-ISSUED: 504/246; 504/284, 504/218, 504/195, 546/183, 548/512, 540/302, 540/593, 540/476

US-CL-CURRENT: 504/246; 504/195, 504/218, 504/284, 540/302, 540/476, 540/593, 546/183, 548/512

FIELD-OF-SEARCH: 546/183, 548/512, 504/246, 504/284, 504/218, 504/195, 540/302, 540/593, 540/476

REF-CITED:

#### U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>4094985</u>	June 1978	Vladuchick	514/373
<u>4531969</u>	July 1985	Neslter	504/316
<u>4550205</u>	October 1985	Paerels	564/166
<u>4943640</u>	July 1990	Woo et al.	548/551
<u>4985063</u>	January 1991	Fischer	514/183
<u>5045560</u>	September 1991	Fischer et al.	514/425
<u>5116836</u>	May 1992	Fischer et al.	514/224.2
<u>5288874</u>	February 1994	Santel	548/453

#### FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
0 262 399	April 1988	EPX	
0 355 599	February 1990	EPX	
0 377 893	July 1990	EPX	
0 415 211	March 1991	EPX	
8 804 652	June 1988	JPX	

#### OTHER PUBLICATIONS

Liebigs Annalen Der Chemie, No. 5, 1985, pp. 1095-1098, Weinheim DE; R. Schmierer et al.: "Cyclisierung von N-Acylalanin- und N-Acylglycineestern".

Chemical Abstracts 113(23) 204816g of JP 01 308 227 A2 By Heisei, Dec. 12, 1989.

Chemical Abstracts 109(13) 110249q of EP 262 399 A2 by Terao, Apr. 6, 1988.

Chemical Abstracts 113(21) 191153m of EP 355 599 A1 by Fischer, Feb. 28, 1990.

Chemical Abstracts 113(3) 23688w of DE 3 831 852 A1 by Fischer, Feb. 22, 1990.

ART-UNIT: 123

PRIMARY-EXAMINER: Ivy; C. Warren

ASSISTANT-EXAMINER: Mach; D. Margaret M.

ATTY-AGENT-FIRM: Sprung Kramer Schaefer & Briscoe

ABSTRACT:

New 3-arylpyrrolidine-2,4-dione derivatives of the formula (I): ##STR1## in which the variables A, B, E, R, X, Y, Z and n are set forth in the specification, are useful as insecticides, acaricides, and herbicides.

20 Claims, 0 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw. Desc	Image
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☐ 23. Document ID: US 5807805 A

L8: Entry 23 of 66

File: USPT

Sep 15, 1998

US-PAT-NO: 5807805

DOCUMENT-IDENTIFIER: US 5807805 A

TITLE: Substituted thiophene derivatives as pesticides and herbicides

DATE-ISSUED: September 15, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fischer; Reiner	Monheim	N/A	N/A	DEX
Dumas; Jacques	Orange	CT	N/A	N/A
Bretschneider; Thomas	Lohmar	N/A	N/A	DEX
Gallenkamp; Bernd	Wuppertal	N/A	N/A	DEX
Lieb; Folker	Leverkusen	N/A	N/A	DEX
Wernthaler; Konrad	Kienberg	N/A	N/A	DEX
Erdelen; Christoph	Leichlingen	N/A	N/A	DEX
Wachendorff-Neumann; Ulrike	Neuwied	N/A	N/A	DEX
Mencke; Norbert	Leverkusen	N/A	N/A	DEX
Turberg; Andreas	Erkrath	N/A	N/A	DEX

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
<u>Bayer</u> Aktiengesellschaft	Leverkusen	N/A	N/A	DEX	03

APPL-NO: 8/ 836336

DATE FILED: May 9, 1997

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	44 40 899.4	November 17, 1994
DE	195 27 190.4	July 26, 1995

PCT-DATA:

APPL-NO	DATE-FILED	PUB-NO	PUB-DATE	371-DATE	102(E)-DATE
PCT/EP95/04355	November 6, 1995	WO96/16061	May 30, 1996	May 9, 1997	May 9, 1997

INT-CL: [6] A01N 43/10, A61K 31/40, C07D 207/46

US-CL-ISSUED: 504/247; 504/283, 504/284, 514/311, 514/314, 514/413, 514/414, 514/422, 546/152, 546/164, 548/527, 549/453, 549/466

US-CL-CURRENT: 504/247; 504/283, 504/284, 514/311, 514/314, 514/413, 514/414, 514/422, 546/152, 546/164, 548/527, 549/453, 549/466

FIELD-OF-SEARCH: 548/527, 549/453, 549/466, 546/152, 546/164, 514/422, 514/413, 514/414, 514/311, 514/314, 504/283, 504/284, 504/247

REF-CITED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>5207817</u>	May 1993	Kramer et al.	504/299
<u>5262383</u>	November 1993	Fischer et al.	504/195

ART-UNIT: 163

PRIMARY-EXAMINER: Lambkin; Deborah C.

ATTY-AGENT-FIRM: Sprung Kramer Schaefer & Briscoe

ABSTRACT:

The invention relates to novel thiophene derivatives of the formula (I) ##STR1## in which X represents halogen, alkyl, alkoxy, alkylthio, halogenoalkyl, halogenoalkoxy, nitro or cyano, or two substituents X, together with the carbon atoms to which they are attached, form a saturated or unsaturated, optionally substituted ring,

n represents a number from 1 to 3, and

Z represents one of the groups ##STR2## in which A, B, D, G, have the meaning given in the description, to processes for their preparation and to their use as pesticides and herbicides.

8 Claims, 0 Drawing figures

24. Document ID: US 5808135 A

L8: Entry 24 of 66

File: USPT

Sep 15, 1998

US-PAT-NO: 5808135

DOCUMENT-IDENTIFIER: US 5808135 A

TITLE: 2-(2,4,6-trimethyl phenyl)cyclopentane-1,3-dione derivatives

DATE-ISSUED: September 15, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fischer; Reiner	Monheim	N/A	N/A	DEX
Dumas; Jacques	Orange	CT	N/A	N/A
Bretschneider; Thomas	Lohmar	N/A	N/A	DEX
Erdelen; Christoph	Leichlingen	N/A	N/A	DEX
Wachendorff-Neumann; Ulrike	Neuwied	N/A	N/A	DEX
Santel; Hans-Joachim	Leverkusen	N/A	N/A	DEX
Dollinger; Markus	Leverkusen	N/A	N/A	DEX
Turberg; Andreas	Erkrath	N/A	N/A	DEX
Mencke; Norbert	Leverkusen	N/A	N/A	DEX

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
<u>Bayer</u> Aktiengesellschaft	Leverkusen	N/A	N/A	DEX	03

APPL-NO: 8/ 765917

DATE FILED: January 15, 1997

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	44 25 953.0	July 21, 1994
DE	195 92 945.3	January 31, 1995
DE	195 21 430.7	June 13, 1995

PCT-DATA:

APPL-NO	DATE-FILED	PUB-NO	PUB-DATE	371-DATE	102(E)-DATE
PCT/EP95/02684	July 11, 1995	WO96/03366	Feb 8, 1996	Jan 15, 1997	Jan 15, 1997

INT-CL: [6] C07C 69/00, C07C 315/00, A01N 37/12, A01N 31/06

US-CL-ISSUED: 560/129, 568/327, 564/263, 564/250, 564/180, 558/214, 504/313, 504/348, 504/344, 504/343, 504/336, 504/290, 504/295, 504/194, 549/39, 549/453

US-CL-CURRENT: 560/129, 504/194, 504/290, 504/295, 504/313, 504/336, 504/343, 504/344, 504/348, 549/39, 549/453, 558/214, 564/180, 564/250, 564/263, 568/327

FIELD-OF-SEARCH: 560/256, 560/129, 568/327, 504/348, 504/344, 504/343, 504/336, 504/290, 504/295, 504/313, 504/194, 549/39, 549/453, 564/263, 564/250, 564/180, 558/214

REF-CITED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>4283348</u>	August 1981	Wheeler	568/327
<u>4436666</u>	March 1984	Wheeler	568/327

ART-UNIT: 163

PRIMARY-EXAMINER: Lambkin; Deborah C.

ATTY-AGENT-FIRM: Sprung Kramer Schaefer & Briscoe



ABSTRACT:

The present invention relates to novel substituted bicyclic 2-mesityl-cyclopentane-1,3-dione derivatives of the formula (I) ##STR1## in which A and Q together represent alkanediyl or alkenediyl, which is in each case optionally substituted by halogen, hydroxyl, mercapto or in each case optionally substituted alkyl, alkoxy, alkylthio, cycloalkyl, benzyloxy or aryl, and which furthermore optionally contains one of the following groups ##STR2## or is bridged by an alkanediyl group and

B, B' and G have the meaning given in the description,

process for their preparation and their use as agents for controlling pests, and herbicides.

6 Claims, 0 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw Desc	Image
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☐ 25. Document ID: US 5798376 A

L8: Entry 25 of 66

File: USPT

Aug 25, 1998

US-PAT-NO: 5798376

DOCUMENT-IDENTIFIER: US 5798376 A

TITLE: Azatrioxaspiroalkenes and their use as insecticidal, acaricidal and nematocidal agents

DATE-ISSUED: August 25, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fischer; Reiner	Monheim	N/A	N/A	DEX
Wachendorff-Neumann; Ulrike	Neuwied	N/A	N/A	DEX
Erdelen; Christoph	Leichlingen	N/A	N/A	DEX
Turberg; Andreas	Erkrath	N/A	N/A	DEX
Mencke; Norbert	Leverkusen	N/A	N/A	DEX

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
<u>Bayer</u> Aktiengesellschaft	Leverkusen	N/A	N/A	DEX	03

APPL-NO: 8/ 676155

DATE FILED: July 11, 1996

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	44 01 105.9	January 17, 1994
DE	44 31 225.3	September 2, 1994

PCT-DATA:

APPL-NO	DATE-FILED	PUB-NO	PUB-DATE	371-DATE	102(E)-DATE
PCT/EP95/00023	January 4, 1995	WO95/19364	Jul 20, 1995	Jul 11, 1996	Jul 11, 1996

INT-CL: [6] C07D 498/10

US-CL-ISSUED: 514/374; 548/216, 546/271.4, 514/340, 549/330

US-CL-CURRENT: 514/374; 514/340, 546/271.4, 548/216, 549/330, 549/371

FIELD-OF-SEARCH: 514/374, 548/216

REF-CITED:

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>3901906</u>	August 1975	Kozlik	548/239
<u>4216162</u>	August 1980	Arut	514/374
<u>4253978</u>	March 1981	Gemmiu	548/21.6
<u>5444079</u>	August 1995	Amoo	514/374

#### OTHER PUBLICATIONS

Mencke et al. Chem Abst. vol. 126 Entry 101492, 1997.  
 Harda, Chem. Abstr. vol. 125 Entry 317321, 1996.  
 Reisch et al. Chem Abstr vol. 116 Entry 235579, 1992.  
 Reisch et al Chem. Abstr vol. 112 Entry 178869, 1990.

ART-UNIT: 161

PRIMARY-EXAMINER: Daus; Donald G.

ATTY-AGENT-FIRM: Sprung Kramer Schaefer & Briscoe

#### ABSTRACT:

The invention relates to new azatrioxaspiroalkenes of the formula (I) ##STR1## in which Ar.sup.1 and Ar.sup.2 are identical or different and independently of one another in each case represent optionally substituted aryl, to processes for their preparation, to new intermediates, and to the use of the azatrioxaspiroalkenes of the formula (I) as pesticides.

3 Claims, 0 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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#### ☐ 26. Document ID: US 5780394 A

L8: Entry 26 of 66

File: USPT

Jul 14, 1998

US-PAT-NO: 5780394

DOCUMENT-IDENTIFIER: US 5780394 A

TITLE: 3-hydroxy-4-aryl-5-oxo-pyrazoline derivatives

DATE-ISSUED: July 14, 1998

#### INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kruger; Bernd-Wieland	Bergisch-Gladbach	N/A	N/A	DEX
Fischer; Reiner	Monheim	N/A	N/A	DEX
Bertram; Heinz-Jurgen	Holzminden	N/A	N/A	DEX
Bretschneider; Thomas	Siegburg	N/A	N/A	DEX
Bohm; Stefan	Leverkusen	N/A	N/A	DEX
Krebs; Andreas	Odenthal-Holz	N/A	N/A	DEX
Schenke; Thomas	Bergisch Gladbach	N/A	N/A	DEX
Santel; Hans-Joachim	Leverkusen	N/A	N/A	DEX
Lurssen; Klaus	Bergisch Gladbach	N/A	N/A	DEX
Schmidt; Robert R.	Bergisch Gladbach	N/A	N/A	DEX
Erdelen; Christoph	Leichlingen	N/A	N/A	DEX
Wachendorff-Neumann; Ulrike	Monheim	N/A	N/A	DEX
Stendel; Wilhelm	Wuppertal	N/A	N/A	DEX

#### ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
<u>Bayer</u> Aktiengesellschaft	Leverkusen	N/A	N/A	DEX	03

APPL-NO: 8/ 788715

DATE FILED: January 23, 1997

PARENT-CASE:

This application is a divisional, of application Ser. No. 08/476,171, filed on Jun. 7, 1995, now U.S. Pat. No. 5,661,110, which is a division of application Ser. No. 08/233,911, filed on Apr. 28, 1994, now U.S. Pat. No. 5,474,974, which is a division of application Ser. No. 07/999,058, filed on Dec. 31, 1992, now U.S. Pat. No. 5,358,924, which is a c-i-p of application Ser. No. 07/849,863, filed on Mar. 12, 1992 now abandoned.

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	41 09 208.2	March 21, 1991

INT-CL: [6] A01N 43/56, C07D 487/04

US-CL-ISSUED: 504/281; 514/405, 548/363.1

US-CL-CURRENT: 504/281; 514/405, 548/363.1

FIELD-OF-SEARCH: 548/363.1, 504/281, 514/405

REF-CITED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>3149115</u>	September 1964	Brabander et al.	N/A
<u>5494890</u>	February 1996	Cederbaum	N/A

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
9216510	October 1992	WOX	

OTHER PUBLICATIONS

Journal of the Chemical Society, Chemical Communications, No. 11, 1987, pp. 840-842.  
Monatshefte Fur Chemie, vol. 119, No. 6/7, Jun./Jul. 1988 pp. 727-737.  
Chemical Abstracts, vol. 73, No. 3, 20 Jul. 1970, p. 290.  
Journal of Heterocyclic Chemistry, vol. 25, No. 5, Sep.-Oct. 1988, pp. 1301-1305.  
Journal of Heterocyclic Chemistry, vol. 25, No. 5, Sep.-Oct. 1988, pp. 1307-1310.  
The Journal of Organic Chemistry, vol. 53, No. 13, 24 Jun. 1988, pp. 2889-2898.  
Synthesis, No. 2, 1 Feb. 1990, pp. 167-170.  
Lora-Tamayo, Chem Abstracts, vol. 84 (1976) No. 17235n.

ART-UNIT: 163

PRIMARY-EXAMINER: Ramsuer; Robert W.

ATTY-AGENT-FIRM: Sprung Kramer Schaefer & Briscoe

ABSTRACT:

There are provided new 3-hydroxy-4-aryl-5-oxo-pyrazoline derivatives of the formula (I) ##STR1## in which A and B are identical or different and independently of one another in each case represent hydrogen, alkyl, alkenyl, alkynyl, alkoxyalkyl, alkylthioalkyl, cycloalkyl or optionally substituted aryl or

A and B together represent the bivalent radical of a saturated or unsaturated, optionally substituted, mono-, bi-, tri- or polycyclic system,

X represents alkyl, halogen or alkoxy,

Y represents hydrogen, alkyl, halogen, alkoxy or halogenoalkyl,

Z represents alkyl, halogen or alkoxy

n represents a number 0, 1, 2 or 3,

G represents hydrogen (a) or the groups ##STR2## in which E represents a metal ion equivalent or an ammonium ion,

L and M represents oxygen and/or sulphur,

and R<sup>sup.1</sup>, R<sup>sup.2</sup>, R<sup>sup.3</sup>, R<sup>sup.4</sup>, R<sup>sup.5</sup>, R<sup>sup.6</sup> and R<sup>sup.7</sup> have the meaning given in the text of the application.

The new 3-hydroxy-4-aryl-5-oxo-pyrazoline derivatives of the formula (I) have a

particularly pronounced activity against animal pests, in particular against insects and arachnids, and against weeds.

11 Claims, 0 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 27. Document ID: US 5739389 A

L8: Entry 27 of 66

File: USPT

Apr 14, 1998

US-PAT-NO: 5739389

DOCUMENT-IDENTIFIER: US 5739389 A

TITLE: Aryl carboxylic acid derivatives

DATE-ISSUED: April 14, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kruger; Bernd-Wieland	Bergisch-Glabach	N/A	N/A	DEX
Fischer; Reiner	Monheim	N/A	N/A	DEX
Bertram; Heinz-Jurgen	Holzminden	N/A	N/A	DEX
Bretschneider; Thomas	Siegburg	N/A	N/A	DEX
Bohm; Stefan	Leverkusen	N/A	N/A	DEX
Krebs; Andreas	Odenthal-Holz	N/A	N/A	DEX
Schenke; Thomas	Bergisch Gladbach	N/A	N/A	DEX
Santel; Hans-Joachim	Leverkusen	N/A	N/A	DEX
Lurssen; Klaus	Bergisch	N/A	N/A	DEX
Schmidt; Robert R.	Bergisch	N/A	N/A	DEX
Erdelen; Christoph	Leichlingen	N/A	N/A	DEX
Wachendorff-Neumann; Ulrike	Monheim	N/A	N/A	DEX
Stendel; Wilhelm	Wuppertal	N/A	N/A	DEX

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
<u>Bayer</u> Aktiengesellschaft	Leverkusen	N/A	N/A	DEX	03

APPL-NO: 8/ 774469

DATE FILED: December 30, 1996

PARENT-CASE:

This application is a divisional of application Ser. No. 08/476,171, filed Jun. 7, 1995, U.S. Pat. No. 5,666,110 which is a division of application Ser. No. 08/233,911, filed Apr. 28, 1994, now U.S. Pat. No. 5,474,974, which is a division of Ser. No. 07/999,058, filed Dec. 31, 1992, now U.S. Pat. No. 5,358,924, which is a c-i-p of Ser. No. 07/849,863, filed Mar. 12, 1992, now abandoned.

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	41 09 208.2	March 21, 1991

INT-CL: [6] C07C 55/28, C07C 45/87

US-CL-ISSUED: 562/489; 568/301

US-CL-CURRENT: 562/489; 568/307

FIELD-OF-SEARCH: 548/356.1, 562/489, 568/301

REF-CITED:

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>3149115</u>	September 1964	Brabander et al.	260/268
<u>5494890</u>	February 1996	Cederbaum et al.	504/281

# FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
9216510	October 1992	WOX	

# OTHER PUBLICATIONS

Journal of the Chemical Society, Chemical Communications, No. 11, 1987, pp. 840-842.  
 Monatshefte Fur Chemie, vol. 119, No. 6/7, Jun./ Jul. 1988 pp. 727-737.  
 Chemical Abstracts, vol. 73, No. 3, 20 Jul. 1970, p. 290.  
 Journal of Heterocycleic Chemistry, vol. 25, No. 5, Sep.-Oct. 1988, pp. 1301-1305.  
 Journal of Heterocyclic Chemistry, vol. 25, No. 5, Sep.-Oct. 1988, pp. 1307-1310.  
 The Journal of Organic Chemistry, vol. 53, No. 13, 24 Jun. 1988, pp. 2889-2898.  
 Synthesis, No. 2, 1 Feb. 1990, pp. 167-170.  
 Lora-Tamayo, Chem Abstracts, vol. 84 (1976) No. 17235n.

ART-UNIT: 121  
 PRIMARY-EXAMINER: Richter; Johann  
 ASSISTANT-EXAMINER: Sackey; Ebenezer  
 ATTY-AGENT-FIRM: Sprung Kramer Schaefer & Briscoe

# ABSTRACT:

There are provided an aryl carboxylic acid derivatives of the formula (XVIa) ##STR1## Aryl carboxylic acid derivatives of the formula (XVIa) have a particularly pronounced activity against animal pests, in particular against insects and arachnids, and against weeds.

4 Claims, 0 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 28. Document ID: US 5719310 A

L8: Entry 28 of 66

File: USPT

Feb 17, 1998

US-PAT-NO: 5719310  
DOCUMENT-IDENTIFIER: US 5719310 A

TITLE: 3-aryl-4-hydroxy-.DELTA..sup.3 -dihydrofuranone derivatives

DATE-ISSUED: February 17, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fischer; Reiner	Monheim	N/A	N/A	DEX
Bretschneider; Thomas	Lohmar	N/A	N/A	DEX
Kruger; Bernd-Wieland	Bergisch Gladbach	N/A	N/A	DEX
Santel; Hans-Joachim	Leverkusen	N/A	N/A	DEX
Dollinger; Markus	Leverkusen	N/A	N/A	DEX
Wachendorff-Neumann; Ulrike	Monheim	N/A	N/A	DEX
Erdelen; Christoph	Leichlingen	N/A	N/A	DEX

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
<u>Bayer</u> Aktiengesellschaft	Leverkusen	N/A	N/A	DEX	03

APPL-NO: 8/ 740974

DATE FILED: November 5, 1996

PARENT-CASE:

This application is a divisional of application Ser. No. 08/303,987, filed Sep. 9, 1994 now U.S. Pat. No. 5,610,122.

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	43 316 72.7	September 17, 1993
DE	43 378 53.6	November 5, 1993

INT-CL: [6] C07C 69/76

US-CL-ISSUED: 560/83; 560/84, 560/85

US-CL-CURRENT: 560/83; 560/84, 560/85

FIELD-OF-SEARCH: 560/83, 560/84, 560/85

REF-CITED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>4525201</u>	June 1985	Kollmeyer et al.	N/A
<u>5262383</u>	November 1993	Fischer et al.	N/A

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
0528156	February 1993	EPX	

ART-UNIT: 123

PRIMARY-EXAMINER: Owens; Amelia Averill

ATTY-AGENT-FIRM: Sprung Kramer Schaefer & Briscoe

ABSTRACT:

The present invention relates to a new 3-aryl-4-hydroxy-.DELTA..sup.3 -dihydrofuranone derivatives of the general formula (I) ##STR1## in which the radicals A, B, G, X, Y, Z and n have the meaning given in the description, to a plurality of processes for their preparation, and to their use as pesticides.

5 Claims, 0 Drawing figures

☐ 29. Document ID: US 5693663 A

L8: Entry 29 of 66

File: USPT

Dec 2, 1997

US-PAT-NO: 5693663

DOCUMENT-IDENTIFIER: US 5693663 A

TITLE: Substituted bicyclic 3-aryl-pyrrolidine-2,4-dione derivatives

DATE-ISSUED: December 2, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Santel; Hans Joachim	Leverkusen	N/A	N/A	DEX
Schmidt; Robert R.	Bergisch Gladbach	N/A	N/A	DEX
Wachendorff-Neumann; Ulrike	Monheim	N/A	N/A	DEX
Erdelen; Christoph	Leichlingen	N/A	N/A	DEX
Bretschneider; Thomas	Siegburg	N/A	N/A	DEX
Fischer; Reiner	Monheim	N/A	N/A	DEX
Hagemann; Hermann	Leverkusen	N/A	N/A	DEX
Kruger; Bernd-Wieland	Bergisch Gladbach	N/A	N/A	DEX
Lurssen; Klaus	Bergisch Gladbach	N/A	N/A	DEX

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
<u>Bayer</u> Aktiengesellschaft	Leverkusen	N/A	N/A	DEX	03

APPL-NO: 8/ 700264

DATE FILED: August 20, 1996

PARENT-CASE:

This application is a divisional of application U.S. Ser. No. 08/292,111, filed on Aug. 17, 1994, now U.S. Pat. No. 5,585,384, issued on Dec. 12, 1996, which in turn is a continuation-in-part of application U.S. Ser. No. 08/134,430, filed on Oct. 8, 1993, now abandoned, which in turn is a divisional of application of U.S. Ser. No. 07/826,303, filed on Jan. 24, 1992, now U.S. Pat. No. 5,288,874.

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	41 02 778.7	January 31, 1991

INT-CL: [6] A01N 43/38, C07D 209/52, C07D 209/02

US-CL-ISSUED: 514/413; 548/485, 548/513

US-CL-CURRENT: 514/413; 548/485, 548/513

FIELD-OF-SEARCH: 548/485, 548/513, 514/413

REF-CITED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>4925868</u>	May 1990	Terao et al.	514/425
<u>4985063</u>	January 1991	Fischer et al.	71/88
<u>5116836</u>	May 1992	Fischer et al.	514/224.2
<u>5142065</u>	August 1992	Fischer et al.	548/533
<u>5338860</u>	August 1994	Baasner et al.	548/550

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO  
0355599  
01308227

PUBN-DATE  
August 1989  
December 1989

COUNTRY  
EPX  
JPX

US-CL

#### OTHER PUBLICATIONS

Seikichi Suzuki, Chem. Pharm. Bull., (1967) pp. 1120-1122 vol. 15.  
Roland Schmierer, Liebigs Ann. Chem., Oct. 29, 1984.  
Chemical Abstracts, vol. 106, 103,815 (1987).  
Chem. Reviews, 52, 1953, pp. 269-277.  
H. R. Harrison, Chemistry and Industry, Nov. 1968, p. 1568.  
William J. Spillane, J. Chem. Soc. Perkin I, 1982, pp. 677-679.

ART-UNIT: 121  
PRIMARY-EXAMINER: Richter; Johann  
ASSISTANT-EXAMINER: Cross; Laura R.  
ATTY-AGENT-FIRM: Sprung Kramer Schaefer & Briscoe

#### ABSTRACT:

The invention relates to substituted bicyclic 3-aryl-pyrrilidine-2,4-dione derivatives of the formula ##STR1## wherein Q and A form a substituted 4- to 6-membered ring. These compounds have utility as pesticides.

12 Claims, 0 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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#### ☐ 30. Document ID: US 5683965 A

L8: Entry 30 of 66

File: USPT

Nov 4, 1997

US-PAT-NO: 5683965  
DOCUMENT-IDENTIFIER: US 5683965 A

TITLE: Substituted aryl keto-enolic heterocycles

DATE-ISSUED: November 4, 1997

#### INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bachmann; Jurgen	Weinheim an der Bergstrasse	N/A	N/A	DEX
Bretschneider; Thomas	Lohmar	N/A	N/A	DEX
Fischer; Reiner	Monheim	N/A	N/A	DEX
Kruger; Bernd-Wieland	Bergisch Gladbach	N/A	N/A	DEX
Santel; Hans-Joachim	Leverkusen	N/A	N/A	DEX
Dollinger; Markus	Leverkusen	N/A	N/A	DEX
Erdelen; Christoph	Leichlingen	N/A	N/A	DEX
Wachendorff-Neumann; Ulrike	Neuwied	N/A	N/A	DEX

#### ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
<u>Bayer</u> Aktiengesellschaft	Leverkusen	N/A	N/A	DEX	03

APPL-NO: 8/ 569194  
DATE FILED: May 13, 1996

#### FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	43 22 273.0	July 5, 1993
DE	44 13 669.2	April 20, 1994

#### PCT-DATA:



APPL-NO	DATE-FILED	PUB-NO	PUB-DATE	371-DATE	102(E)-DATE
PCT/EP94/02042	June 22, 1994	WO95/01971	Jan 19, 1995	May 13, 1996	May 13, 1996

INT-CL: [6] A01N 43/56, A61K 31/415, C07D 237/26

US-CL-ISSUED: 504/238; 504/284, 504/299, 514/405, 514/413, 514/462, 544/235, 548/453, 549/265

US-CL-CURRENT: 504/238; 504/284, 504/299, 514/405, 514/413, 514/462, 544/235, 548/453, 549/265

FIELD-OF-SEARCH: 549/265, 549/304, 549/305, 549/315, 514/462, 514/413, 514/405, 514/461, 514/464, 514/471, 514/473, 514/409, 514/404, 504/299, 504/284, 504/238, 548/453, 548/408, 548/410, 548/544, 548/302.1, 548/302.7, 548/302.4, 548/316.7, 544/235, 544/234, 544/236

REF-CITED:

#### U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>4985063</u>	January 1991	Fischer et al.	71/88
<u>5045560</u>	September 1991	Fischer et al.	514/425
<u>5091537</u>	February 1992	Fischer et al.	546/226
<u>5094681</u>	March 1992	Kramer et al.	71/88
<u>5116836</u>	May 1992	Fischer et al.	514/224.2
<u>5142065</u>	August 1992	Fischer et al.	548/533
<u>5186737</u>	February 1993	Fischer et al.	504/283
<u>5191089</u>	March 1993	Baasner et al.	548/550
<u>5225434</u>	July 1993	Bertram et al.	514/411
<u>5258527</u>	November 1993	Krauskopf et al.	548/543
<u>5262383</u>	November 1993	Fischer et al.	504/195
<u>5288874</u>	February 1994	Santel et al.	548/453
<u>5304530</u>	April 1994	Cliff et al.	504/266
<u>5332720</u>	July 1994	Kruger et al.	504/281
<u>5474974</u>	December 1995	Kruger et al.	504/236
<u>5504057</u>	April 1996	Fischer et al.	504/283

#### FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
0355599	February 1990	EPX	
0508126	October 1992	EPX	
0528156	February 1993	EPX	
4014420	April 1991	DEX	
4213026	October 1993	DEX	

ART-UNIT: 121

PRIMARY-EXAMINER: McKane; Joseph

ASSISTANT-EXAMINER: Myers, Jr.; Richard S.

ATTY-AGENT-FIRM: Sprung Kramer Schaefer & Briscoe

#### ABSTRACT:

The aryl-keto-enolic heterocycles according to the invention have the formula (I), in which Het stands for a heterocyclic group from the series (a), (b) or (c), and X, Y, Z, n, A, B, E, L and M have the meanings given in the description. The compounds having the formula (I) are pesticides, in particular acaricides, insecticides, fungicides and herbicides. Also disclosed is their preparation. ##STR1##

13 Claims, 0 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	IMC	Draw Desc	Image
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Generate Collection

Terms	Documents
17 and (acetonitrile or methylcyano)	66

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Documents, starting with Document:

Display Format:

## Generate Collection

## Search Results - Record(s) 31 through 40 of 66 returned.

☐ 31. Document ID: US 5677449 A

L8: Entry 31 of 66

File: USPT

Oct 14, 1997

US-PAT-NO: 5677449

DOCUMENT-IDENTIFIER: US 5677449 A

TITLE: Substituted 1-H-3-aryl-pyrrolidine-2,4-dione derivatives

DATE-ISSUED: October 14, 1997

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fischer; Reiner	Monheim	N/A	N/A	DEX
Bretschneider; Thomas	Siegburg	N/A	N/A	DEX
Kruger; Bernd-Wieland	Bergisch Gladbach	N/A	N/A	DEX
Erdelen; Christoph	Leichlingen	N/A	N/A	DEX
Santel; Hans-Joachim	Leverkusen	N/A	N/A	DEX
Lurssen; Klaus	Bergisch Gladbach	N/A	N/A	DEX
Schmidt; Robert R.	Bergisch Gladbach	N/A	N/A	DEX
Wachendorff-Neumann; Ulrike	Monheim	N/A	N/A	DEX
Stendel; Wilhelm	Wuppertal	N/A	N/A	DEX

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
<u>Bayer</u> Aktiengesellschaft	Leverkusen	N/A	N/A	DEX	03

APPL-NO: 8/ 462488

DATE FILED: June 5, 1995

## PARENT-CASE:

This is a division of application Ser. No. 08/140,635, filed on Oct. 21, 1993, now U.S. Pat. No. 5,462,913.

## FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	42 36 401.9	October 28, 1992
DE	43 26 909.5	August 11, 1993

INT-CL: [6] C07D 295/12, C07D 295/22

US-CL-ISSUED: 544/165; 546/335, 560/45

US-CL-CURRENT: 544/165; 546/335, 560/45

FIELD-OF-SEARCH: 560/43, 560/45, 544/165, 546/335

## REF-CITED:

## U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>4584303</u>	April 1986	Huang et al.	514/326
<u>5462913</u>	October 1995	Fischer et al.	504/138
<u>5508436</u>	April 1996	Fischer et al.	548/544

## FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
442073	December 1990	EPX	
456063	April 1991	EPX	
501129	January 1992	EPX	
521334	June 1992	EPX	

#### OTHER PUBLICATIONS

Fischer et al., Chemical Abstracts 119(1):8676w, Jul. 5, 1993 Abstract of EP 521334.  
 Krauskopf et al., Chemical Abstracts 116(11) 106083h, May 16, 1992 Abstract of EP 456,063.  
 Chemical Abstracts, vol. 53, Aug. 25, 1959, No. 16, "1-Apparatus, Plant Equipment, and Operations".

ART-UNIT: 122  
 PRIMARY-EXAMINER: Grumblin; Matthew V.  
 ATTY-AGENT-FIRM: Sprung Kramer Schaefer & Briscoe

#### ABSTRACT:

The invention relates to new 1-H-3-aryl-pyrrolidine-2,4-dione derivatives of the formula (I) ##STR1## in which A and B together with the carbon atom to which they are bonded represent a substituted cycle,

X represents alkyl, halogen or alkoxy,

Y represents hydrogen, alkyl, halogen, alkoxy or halogenoalkyl,

Z represents alkyl, halogen or alkoxy,

n represents 0, 1, 2 or 3,

G is defined in the claims,

to processes for their preparation, and to their use as pesticides.

4 Claims, 0 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	INDEX	Draw Desc	Image
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#### ☐ 32. Document ID: US 5672718 A

L8: Entry 32 of 66

File: USPT

Sep 30, 1997

US-PAT-NO: 5672718  
 DOCUMENT-IDENTIFIER: US 5672718 A

TITLE: N-phenylacetamino nitriles

DATE-ISSUED: September 30, 1997

#### INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fischer; Reiner	Monheim	N/A	N/A	DEX
Beck; Gunther	Leverkusen	N/A	N/A	DEX

#### ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Bayer Aktiengesellschaft	Leverkusen	N/A	N/A	DEX	03

APPL-NO: 8/ 558300  
 DATE FILED: November 15, 1995

#### PARENT-CASE:

This application is a divisional of application Ser. No. 08/140,633, filed Oct. 21, 1993 now U.S. Pat. No. 5,508,436.

## FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	42 36 400.0	October 28, 1992

INT-CL: [6] C07D 333/20

US-CL-ISSUED: 549/28; 549/61, 549/69, 549/363, 549/424, 549/449

US-CL-CURRENT: 549/28; 549/363, 549/424, 549/449, 549/61, 549/69

FIELD-OF-SEARCH: 549/28, 549/61, 549/69, 549/363, 549/424, 549/449

REF-CITED:

## FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
427907	May 1991	EPX	
456063	November 1991	EPX	
419457	November 1934	GBX	

## OTHER PUBLICATIONS

Chemical Abstracts 28-Heterocyclic Compounds, p.1243, vol. 68, (1968); 12942a; "Lactams. X. The Synthesis of . . . ", VG Granik et al. d1-a-Aminophenylacetic Acid, RE Steiger, pp. 23-25.

Liebighs Ann. Chem., vol. 764, pp. 69-93, (1972); "Enamide", P. Kurtz, et al. J. Org. Chem, vol. 43, No. 13, (1978), pp. 2576-2581; "Approach to the Use of Benzylpenicilliancylase for . . . " D. Rossi, et al.

ART-UNIT: 121

PRIMARY-EXAMINER: Haley; Jacqueline

ATTY-AGENT-FIRM: Sprung Horn Kramer &amp; Woods

## ABSTRACT:

The present invention relates to novel N-phenylacetamino nitriles of the general formula (I), ##STR1## in which R.sup.1 represents hydrogen, or represents alkyl, alkenyl, cycloalkyl, aryl or heterocyclyl which are in each case optionally substituted, and

R.sup.2 represents hydrogen, or represents alkyl which is optionally substituted, or

R.sup.1 and R.sup.2, together with the carbon atom to which they are bonded, represent cycloalkyl or heterocyclyl which are in each case optionally substituted,

R.sup.3 represents halogen, alkyl or alkoxy,

R.sup.4 represents hydrogen, halogen, alkyl, halogenoalkyl or alkoxy,

R.sup.5 represents halogen, alkyl or alkoxy, and

m represents a number 0, 1, 2 or 3, processes for their preparation and their use for the preparation of agents for controlling pests.

12 Claims, 0 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	Keyword	Draw. Desc	Image
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☐ 33. Document ID: US 5661110 A

L8: Entry 33 of 66

File: USPT

Aug 26, 1997

US-PAT-NO: 5661110

DOCUMENT-IDENTIFIER: US 5661110 A

TITLE: 3-hydroxy-4-aryl-5-oxo-pyrazoline derivatives

DATE-ISSUED: August 26, 1997

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kruger; Bernd-Wieland	Bergisch-Gladbach	N/A	N/A	DEX
Fischer; Reiner	Monheim	N/A	N/A	DEX
Bertram; Heinz-Jurgen	Holzminden	N/A	N/A	DEX
Bretschneider; Thomas	Siegburg	N/A	N/A	DEX
Bohm; Stefan	Leverkusen	N/A	N/A	DEX
Krebs; Andreas	Odenthal-Holz	N/A	N/A	DEX
Schenke; Thomas	Bergisch Gladbach	N/A	N/A	DEX
Santel; Hans-Joachim	Leverkusen	N/A	N/A	DEX
Lurssen; Klaus	Bergisch Gladbach	N/A	N/A	DEX
Schmidt; Robert R.	Bergisch Gladbach	N/A	N/A	DEX
Erdelen; Christoph	Leichlingen	N/A	N/A	DEX
Wachendorff-Neumann; Ulrike	Monheim	N/A	N/A	DEX
Stendel; Wilhelm	Wuppertal	N/A	N/A	DEX

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
<u>Bayer</u> Aktiengesellschaft	Leverkusen	N/A	N/A	DEX	03

APPL-NO: 8/ 476171

DATE FILED: June 7, 1995

## PARENT-CASE:

This is a division of prior application Ser. No. 08/233,911, filed on Apr. 28, 1994, now U.S. Pat. No. 5,474,974, which is a division of application Ser. No. 07/999,058 filed Dec. 31, 1992 now U.S. Pat. No. 5,358,924 issued Oct. 25, 1994, which is a cip of Ser. No. 07/968,888 filed Dec. 16, 1992, now U.S. Pat. No. 5,332,720 issued Jul. 26, 1994, which is a division of Ser. No. 07/849,863 filed Mar. 12, 1992, now abandoned.

## FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	41 09 208.2	March 21, 1991

INT-CL: [6] A01N 43/56, C07D 231/54

US-CL-ISSUED: 504/281; 514/405, 548/363.1

US-CL-CURRENT: 504/281; 514/405, 548/363.1

FIELD-OF-SEARCH: 548/363.1, 514/405, 504/281

## REF-CITED:

## U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>3149115</u>	September 1964	Brabander et al.	N/A
<u>5494890</u>	February 1996	Cederbaum et al.	548/363.1

## FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
9216510	October 1992	WOX	

## OTHER PUBLICATIONS

Journal of Heterocyclic Chemistry, vol. 25, No. 5, Sep.-Oct. 1988, pp. 1301-1305.  
 Journal of Heterocyclic Chemistry, vol. 25, No. 5, Sep.-Oct. 1988, pp. 1307-1310.  
 The Journal of Organic Chemistry, vol. 53, No. 13, 24 Jun. 1988, pp. 2889-2898.  
 Journal of the Chemical Society, Chemical Communications, No. 11, 1987, pp. 840-842.  
 Monatshefte Fur Chemie, vol. 119, No. 6/7, Jun./Jul. 1988 pp. 727-737.  
 Chemical Abstracts, vol. 73, No. 3, 20 Jul. 1970, p. 290.  
 Synthesis, No. 2, 1 Feb. 1990, pp. 167-170.  
 Lora-Tamayo, Chem Abstracts, vol. 84 (1976) No. 17235n.

ART-UNIT: 121

PRIMARY-EXAMINER: Ramsuer; Robert W.

## ABSTRACT:

There are provided new 3-hydroxy-4-aryl-5-oxo-pyrazoline derivatives of the formula (I)  
 ##STR1## The new 3-hydroxy-4-aryl-5-oxo-pyrazoline derivatives of the formula (I) have a particularly pronounced activity against animal pests, in particular against insects and arachnids, and against weeds.

11 Claims, 0 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	INOC	Draw Desc	Image
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☐ 34. Document ID: US 5622917 A

L8: Entry 34 of 66

File: USPT

Apr 22, 1997

US-PAT-NO: 5622917

DOCUMENT-IDENTIFIER: US 5622917 A

TITLE: Substituted 1H--3-aryl-pyrrolidine-2,4-dione derivatives

DATE-ISSUED: April 22, 1997

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fischer; Reiner	Monheim	N/A	N/A	DEX
Bretschneider; Thomas	Lohmar	N/A	N/A	DEX
Kr uger; Bernd-Wieland	Bergisch Gladbach	N/A	N/A	DEX
Ruther; Michael	Monheim	N/A	N/A	DEX
Erdelen; Christoph	Leichlingen	N/A	N/A	DEX
Wachendorff-Neumann; Ulrike	Monheim	N/A	N/A	DEX
Santel; Hans-Joachim	Leverkusen	N/A	N/A	DEX
Dollinger; Markus	Leverkusen	N/A	N/A	DEX

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
<u>Bayer</u> Aktiengesellschaft	Leverkusen	N/A	N/A	DEX	03

APPL-NO: 8/ 383801

DATE FILED: January 3, 1995

## FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	44 04 001.6	February 9, 1994
DE	44 31 730.1	September 6, 1994

INT-CL: [6] A01N 43/54, A01N 43/36, A01N 43/38, A61K 31/505, A61K 31/415, A61K 32/40, C07D 207/273, C07D 401/04, C07D 401/14, C07D 403/04, C07D 403/14, C07D 405/04, C07D 409/04, C07D 409/14

US-CL-ISSUED: 504/283; 504/195, 504/196, 504/197, 504/219, 504/221, 504/225, 504/239, 504/242, 504/243, 504/250, 504/252, 504/253, 504/266, 504/275, 504/277, 504/278, 504/279, 504/272, 504/273, 504/274, 504/280, 504/282, 504/287, 514/80, 514/86, 514/89, 514/90, 514/93, 514/94, 514/91, 514/92, 514/211, 514/212, 514/227.8, 514/228.2, 514/232.2, 514/232.5, 514/235.8, 514/236.2, 514/236.8, 514/235.5, 514/256, 514/269, 514/272, 514/274, 514/275, 514/278, 514/332, 514/339, 514/340, 514/341, 514/342, 514/343, 514/359, 514/365, 514/369, 514/383, 514/384, 514/385, 514/397, 514/406, 514/407, 514/409, 514/414, 514/422, 514/425, 514/408, 514/79, 548/119, 548/113, 548/147, 548/182, 548/263.2, 548/266.2, 548/266.4, 548/335.5, 548/357.5, 548/364.7, 548/365.7, 548/364.1, 548/408, 548/409, 548/413, 548/414, 548/452, 548/469, 548/518, 548/519, 548/517, 548/544, 546/15, 546/22, 546/256, 546/281, 546/269.7, 546/278.4, 546/272.4, 546/277.4, 544/230, 544/243, 544/333, 544/298

US-CL-CURRENT: 504/283; 504/195, 504/196, 504/197, 504/219, 504/221, 504/225, 504/239, 504/242, 504/243, 504/250, 504/252, 504/253, 504/266, 504/272, 504/273, 504/274, 504/275, 504/277, 504/278, 504/279, 504/280, 504/282, 504/287, 514/211, 514/211.15, 514/212,

514/212.02, 514/217.04, 514/217.06, 514/217.08, 514/227.8, 514/228.2, 514/232.2, 514/232.5, 514/235.5, 514/235.8, 514/236.2, 514/236.8, 514/256, 514/269, 514/272, 514/274, 514/275, 514/278, 514/332, 514/339, 514/340, 514/341, 514/342, 514/343, 514/359, 514/365, 514/369, 514/383, 514/384, 514/385, 514/397, 514/406, 514/407, 514/408, 514/409, 514/414, 514/422, 514/425, 514/79, 514/80, 514/86, 514/89, 514/90, 514/91, 514/92, 514/93, 514/94, 544/230, 544/243, 544/298, 544/333, 546/15, 546/22, 546/256, 546/269.7, 546/272.4, 546/277.4, 546/278.4, 548/113, 548/119, 548/147, 548/182, 548/263.2, 548/266.2, 548/266.4, 548/335.5, 548/357.5, 548/364.1, 548/364.7, 548/365.7, 548/408, 548/409, 548/413, 548/414, 548/452, 548/469, 548/517, 548/518, 548/519, 548/544  
 FIELD-OF-SEARCH: 548/530, 548/518, 548/543, 548/544, 548/119, 548/182, 548/266.4, 548/364.7, 548/408, 548/414, 548/113, 548/263.2, 548/335.5, 548/365.7, 548/409, 548/452, 514/75, 514/408, 514/409, 514/80, 514/90, 514/91, 514/212, 514/232.2, 514/236.2, 514/256, 514/274, 514/332, 514/341, 514/359, 514/383, 514/397, 514/425, 514/86, 514/93, 504/283, 504/195, 504/219, 504/239, 504/250, 504/266, 504/278, 504/273, 504/282, 504/196, 504/221, 504/242, 504/252, 504/275, 504/279, 504/274, 504/287, 504/225, 504/243

REF-CITED:

# FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
0377893	July 1990	EPX	
0456063	November 1991	EPX	
0521334	January 1993	EPX	
0595130	May 1994	EPX	
0596298	May 1994	EPX	
0613884	September 1994	EPX	
0613885	September 1994	EPX	
9401401	January 1994	WOX	

ART-UNIT: 122

PRIMARY-EXAMINER: Ford; John M.

ATTY-AGENT-FIRM: Sprung Horn Kramer & Woods

## ABSTRACT:

The invention relates to new 1H-3-aryl-pyrrolidine-2,4-dione derivatives of the formula (I) ##STR1## in which A, B, X, Y and G have the meanings given in the description, to a plurality of processes for their preparation, and to their use as pesticides.

13 Claims, 0 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 35. Document ID: US 5616536 A

L8: Entry 35 of 66

File: USPT

Apr 1, 1997



US-PAT-NO: 5616536  
DOCUMENT-IDENTIFIER: US 5616536 A

TITLE: Substituted 1H-3-aryl-pyrrolidine-2,4-dione derivatives

DATE-ISSUED: April 1, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fischer; Reiner	Monheim	N/A	N/A	DEX
Kruger; Bernd-Wieland	Bergisch Gladbach	N/A	N/A	DEX
Bretschneider; Thomas	Siegburg	N/A	N/A	DEX
Erdelen; Christoph	Leichlingen	N/A	N/A	DEX
Wachendorff-Neumann; Ulrike	Monheim	N/A	N/A	DEX
Lurssen; Klaus	Bergisch Gladbach	N/A	N/A	DEX
Santel; Hans-Joachim	Leverkusen	N/A	N/A	DEX
Schmidt; Robert R.	Bergisch Gladbach	N/A	N/A	DEX

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
<u>Bayer</u> Aktiengesellschaft	Leverkusen	N/A	N/A	DEX	03

APPL-NO: 8/ 657076  
DATE FILED: June 3, 1996

PARENT-CASE:

This is a division of application Ser. No. 08/483,913, filed on Jun. 7, 1995 now pending, which is a continuation of application Ser. No. 08/166,669 filed on Dec. 14, 1993 now abandoned, which is a continuation of application Ser. No. 07/901,051 filed on Jun. 19, 1992 now abandoned.

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	41 21 365.3	June 28, 1991

INT-CL: [6] A01N 43/36, A01N 43/84, C07D 207/273, C07D 413/12

US-CL-ISSUED: 504/225; 504/283, 514/237.2, 514/425, 544/70, 544/141, 546/15, 546/208, 548/408, 548/544

US-CL-CURRENT: 504/225; 504/283, 514/237.2, 514/425, 544/141, 544/70, 546/15, 546/208, 548/408, 548/544

FIELD-OF-SEARCH: 544/70, 544/141, 548/408, 548/544, 514/237.2, 504/225, 504/283

REF-CITED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>5045560</u>	September 1991	Fischer et al.	548/544
<u>5258527</u>	November 1993	Krauskopf et al.	548/543

OTHER PUBLICATIONS

Bertram, Chemical Abstracts, vol. 115, No. 207,850 (1991) Abstract of EP 442,077.

ART-UNIT: 121

PRIMARY-EXAMINER: Ramsuer; Robert W.

ATTY-AGENT-FIRM: Sprung Horn Kramer & Woods

ABSTRACT:

There are provided substituted 3-aryl-pyrrolidine-2,4-dione derivatives of the formula (I) ##STR1## The new compounds (I) have highly pronounced insecticidal, acaricidal and herbicidal properties.

9 Claims, 0 Drawing figures

☐ 36. Document ID: US 5610122 A

L8: Entry 36 of 66

File: USPT

Mar 11, 1997

US-PAT-NO: 5610122

DOCUMENT-IDENTIFIER: US 5610122 A

TITLE: 3-aryl-4-hydroxy-delta3-dihydrofuranone derivatives

DATE-ISSUED: March 11, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fischer; Reiner	Monheim	N/A	N/A	DEX
Bretschneider; Thomas	Lohmar	N/A	N/A	DEX
Kr uger; Bernd-Wieland	Bergisch Gladbach	N/A	N/A	DEX
Santel; Hans-Joachim	Leverkusen	N/A	N/A	DEX
Dollinger; Markus	Leverkusen	N/A	N/A	DEX
Wachendorff-Neumann; Ulrike	Monheim	N/A	N/A	DEX
Erdelen; Christoph	Leichlingen	N/A	N/A	DEX

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
<u>Bayer</u> Aktiengesellschaft	Leverkusen	N/A	N/A	DEX	03

APPL-NO: 8/ 303987

DATE FILED: September 9, 1994

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	43 31 672.7	September 17, 1993
DE	43 37 853.6	November 5, 1993

INT-CL: [6] A01N 43/08

US-CL-ISSUED: 504/251; 504/299, 514/336, 514/462, 514/473, 546/15, 546/284.4, 549/315, 549/318, 549/220, 549/222

US-CL-CURRENT: 504/251; 504/299, 514/336, 514/462, 514/473, 546/15, 546/284.4, 549/220, 549/222, 549/315, 549/318

FIELD-OF-SEARCH: 549/315, 549/318, 514/462, 514/473, 514/336, 546/268, 504/251, 504/299

REF-CITED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>4525201</u>	June 1985	Kollmeyer et al.	71/76
<u>5262383</u>	November 1993	Fischer et al.	504/195

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
0528156	February 1993	EPX	

ART-UNIT: 123

PRIMARY-EXAMINER: Owens; Amelia A.

ATTY-AGENT-FIRM: Sprung Horn Kramer & Woods

ABSTRACT:

The present invention relates to a new 3-aryl-4-hydroxy-.DELTA..sup.3 -dihydrofuranone derivatives of the general formula (I) ##STR1## in which the radicals A, B, G, X, Y, Z and

dehavetikesmeanthe generalinforudesclp##68R1## inpwbiaditpeofapioessAs BorGthXirY, Z and preparation, and to their use as pesticides.

14 Claims, 0 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	RMK	Draw Desc	Image
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☐ 37. Document ID: US 5602078 A

L8: Entry 37 of 66

File: USPT

Feb 11, 1997

US-PAT-NO: 5602078

DOCUMENT-IDENTIFIER: US 5602078 A

TITLE: Dialkyl-1-H-3-(2,4-dimethylphenyl)-pyrrolidine-2,4-diones, their preparation and their use

DATE-ISSUED: February 11, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fischer; Reiner	Monheim	N/A	N/A	DEX
Bretschneider; Thomas	Siegburg	N/A	N/A	DEX
Kr uger; Bernd-Wieland	Bergisch Gladbach	N/A	N/A	DEX
Santel; Hans-Joachim	Leverkusen	N/A	N/A	DEX
Dollinger; Markus	Leichlingen	N/A	N/A	DEX
Erdelen; Christoph	Leichlingen	N/A	N/A	DEX
Wachendorff-Neumann; Ulrike	Monheim	N/A	N/A	DEX

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
<u>Bayer</u> Aktiengesellschaft	Leverkusen	N/A	N/A	DEX	03

APPL-NO: 8/ 566781

DATE FILED: December 4, 1995

PARENT-CASE:

This application is a divisional, of application Ser. No. 08/200,138, filed Feb. 22, 1994 now U.S. Pat. No. 5,504,057.

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	43 06 259.8	March 1, 1993

INT-CL: [6] A01N 43/36, C07D 207/12

US-CL-ISSUED: 504/283; 548/408, 548/544

US-CL-CURRENT: 504/283; 548/408, 548/544

FIELD-OF-SEARCH: 548/408, 548/544, 504/283

REF-CITED:

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
415185	March 1991	EPX	
0456063	November 1991	EPX	
0521334	January 1993	EPX	
0595130	May 1994	EPX	
0596298	May 1994	EPX	

OTHER PUBLICATIONS

CA 116:106083h, Preparation . . . insecticides, Krausdopf et al., p. 754, 1992.  
CA 119:8676w: Substituted . . . derivatives, Fischer, et al., p. 89.+-., 1993.

ART-UNIT: 121

PRIMARY-EXAMINER: McKane; Joseph K.

ATTY-AGENT-FIRM: Sprung Horn Kramer & Woods

ABSTRACT:

Dialkyl-1-H-3-(2,4-dimethylphenyl)-pyrrolidine-2,4-diones of the formula (I) ##STR1## in which A represents alkyl which is optionally substituted by halogen and

B represents C.sub.2 -C.sub.10 -alkyl or

A and B together with the carbon atom to which they are bonded represent an unsubstituted cycle,

G represents hydrogen,

L and M represent oxygen and/or sulphur. These compounds possess herbicidal and pesticidal activity.

7 Claims, 0 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 38. Document ID: US 5589469 A

L8: Entry 38 of 66

File: USPT

Dec 31, 1996

US-PAT-NO: 5589469

DOCUMENT-IDENTIFIER: US 5589469 A

TITLE: Substituted 1H-3-aryl-pyrrolidine-2,4-dione derivatives

DATE-ISSUED: December 31, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fischer; Reiner	Monheim	N/A	N/A	DEX
Kr uger; Bernd-Wieland	Bergisch Gladbach	N/A	N/A	DEX
Bretschneider; Thomas	Siegburg	N/A	N/A	DEX
Erdelen; Christoph	Leichlingen	N/A	N/A	DEX
Wachendorff-Neumann; Ulrike	Monheim	N/A	N/A	DEX
L urssen; Klaus	Bergisch Gladbach	N/A	N/A	DEX
Santel; Hans-Joachim	Leverkusen	N/A	N/A	DEX
Schmidt; Robert R.	Bergisch Gladbach	N/A	N/A	DEX

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
<u>Bayer</u> Aktiengesellschaft	Leverkusen	N/A	N/A	DEX	03

APPL-NO: 8/ 483913

DATE FILED: June 7, 1995

PARENT-CASE:

This application is a continuation application Ser. No. 08/166,669, filed on Dec. 14, 1993 now abandoned which is a continuation of application Ser. No. 07/901,051, filed on Jun. 19, 1992 now abandoned.

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	41 21 365.3	June 28, 1991

INT-CL: [6] A01N 43/36, A01N 57/16, C07D 207/273, C07F 9/572  
US-CL-ISSUED: 514/91; 514/425, 544/141, 548/413, 548/544, 504/283  
US-CL-CURRENT: 514/91; 504/283, 514/425, 544/141, 548/413, 548/544  
FIELD-OF-SEARCH: 548/544, 548/413, 514/425, 514/91

REF-CITED:

#### U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>4925868</u>	May 1990	Terao et al.	548/544
<u>5045560</u>	September 1991	Fisher et al.	548/544
<u>5258527</u>	November 1943	Krauskopf et al.	548/543

#### FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
0415185	August 1990	EPX	
0442077	December 1990	EPX	
0456063	April 1991	EPX	
4032090	October 1990	DEX	

#### OTHER PUBLICATIONS

Bertram, Chemical Abstracts, vol. 115, No. 207,850 (1991) Abstract of EP 442,077.  
S. Suzuki et al, "Studies on Antiviral Agents . . . ", Chem. Pharm. Bull. 15, (1967), pp. 1120-1122.  
R. Schmierer et al, "Cyclisierung von N-Acylalanin-. . . ", Liebigs Ann. Chem. (1985) pp. 1095-1098.  
"Reactions of Aliphatic Acid Chlorides", Chem. Reviews, V. 52 (1953), pp. 269-277.  
H. R. Harrison et al, "Use of molecular sieves in the methyl esterification . . . ", Chem. and Ind., (1968), p. 1568.  
W. J. Spillane et al, "Versatile Synthesis of Sulphamate Esters by . . . ", J. Chem. Soc. (3), (1982), pp. 677-679.

ART-UNIT: 121

PRIMARY-EXAMINER: Ramsuer; Robert W.

ATTY-AGENT-FIRM: Sprung Horn Kramer & Woods

#### ABSTRACT:

There are provided novel substituted 3-aryl-pyrrolidine-2,4-dione derivatives of the formula (I) ##STR1## in which X represents alkyl, halogen or alkoxy,

Y represents hydrogen, alkyl, halogen, alkoxy or halogenoalkyl,

Z represents alkyl, halogen or alkoxy,

n represents a number from 0-3,

A represents hydrogen, or represents alkyl, alkoxyalkyl or alkylthioalkyl, each of which is optionally substituted by halogen, cycloalkyl which is optionally interrupted by hetero atoms, or represents aryl, arylalkyl or hetaryl, each of which is optionally substituted by halogen-, alkyl-, halogenoalkyl-, alkoxy- or nitro,

B represents hydrogen, alkyl or alkoxyalkyl,

or in which

A and B together with the carbon atom to which they are bonded form an optionally substituted saturated or unsaturated cycle which can be interrupted by oxygen and/or sulphur.

R represents the groups ##STR2## in which L, M as well as R<sup>sup.1</sup>, R<sup>sup.2</sup>, R<sup>sup.3</sup>, R<sup>sup.4</sup>, R<sup>sup.5</sup> and R<sup>sup.6</sup> have the meaning given in the text of the application.

The new compounds (I) have highly pronounced insecticidal, acaricidal and herbicidal properties.

8 Claims, 0 Drawing figures

☐ 39. Document ID: US 5585384 A

L8: Entry 39 of 66

File: USPT

Dec 17, 1996

US-PAT-NO: 5585384

DOCUMENT-IDENTIFIER: US 5585384 A

TITLE: Substituted bicyclic 3-aryl-pyrrolidine-2,4-dione derivatives

DATE-ISSUED: December 17, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Santel; Hans J.	Leverkusen	N/A	N/A	DEX
Schmidt; Robert R.	Bergisch Gladbach	N/A	N/A	DEX
Wachendorff-Neumann; Ulrike	Monheim	N/A	N/A	DEX
Erdelen; Christoph	Leichlingen	N/A	N/A	DEX
Bretschneider; Thomas	Siegburg	N/A	N/A	DEX
Fischer; Reiner	Monheim	N/A	N/A	DEX
Hagemann; Hermann	Leverkusen	N/A	N/A	DEX
Kr uger; Bernd-Wieland	Bergisch Gladbach	N/A	N/A	DEX
L urssen; Klaus	Bergisch Gladbach	N/A	N/A	DEX

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
<u>Bayer</u> Aktiengesellschaft	Leverkusen	N/A	N/A	DEX	03

APPL-NO: 8/ 292111

DATE FILED: August 17, 1994

PARENT-CASE:

This application is a continuation-in-part of application Ser. No. 08/134,430, filed on Oct. 8, 1993, now abandoned, which in turn is a divisional of application Ser. No. 07/826,303, filed on Jan. 24, 1992, now U.S. Pat. No. 5,288,874.

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	41 02 778.7	January 31, 1991

INT-CL: [6] C07D 471/04, A01N 43/40, A01N 43/54

US-CL-ISSUED: 514/299; 504/239, 514/269, 546/121

US-CL-CURRENT: 514/299; 504/239, 514/269, 546/121

FIELD-OF-SEARCH: 548/543, 546/121, 514/299, 514/269, 504/246, 504/239, 544/333

ART-UNIT: 121

PRIMARY-EXAMINER: Springer; David B.

ATTY-AGENT-FIRM: Sprung Horn Kramer & Woods

ABSTRACT:

There have been discovered new bicyclic pyrrolidone compounds such as: ##STR1## which are useful as insecticides, ascaricides and herbicides.

9 Claims, 0 Drawing figures

☐ 40. Document ID: US 5567671 A

US-PAT-NO: 5567671

DOCUMENT-IDENTIFIER: US 5567671 A

TITLE: Substituted 1-H-3-phenyl-5-cycloalkylpyrrolidine-2,4-diones, their preparation and their use

DATE-ISSUED: October 22, 1996

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fischer; Reiner	Monheim	N/A	N/A	DEX
Bretschneider; Thomas	Siegburg	N/A	N/A	DEX
Kr uger; Bernd-Wieland	Bergisch Gladbach	N/A	N/A	DEX
Santel; Hans-Joachim	Leverkusen	N/A	N/A	DEX
Dollinger; Markus	Leichlingen	N/A	N/A	DEX
Turberg; Andreas	Erkrath	N/A	N/A	DEX
Wachendorff-Neumann; Ulrike	Monheim	N/A	N/A	DEX

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
<u>Bayer</u> Aktiengesellschaft	Leverkusen	N/A	N/A	DEX	03

APPL-NO: 8/ 200139

DATE FILED: February 22, 1994

## FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	43 06 257.1	March 1, 1993

INT-CL: [6] A01N 43/36, C07D 207/22

US-CL-ISSUED: 504/283; 504/225, 504/242, 504/252, 504/266, 544/243, 544/333, 544/141, 548/200, 548/364.1, 548/408, 548/413, 548/517, 548/518, 548/523, 548/544, 548/407, 546/24, 546/278.7

US-CL-CURRENT: 504/283; 504/225, 504/242, 504/252, 504/266, 544/141, 544/243, 544/333, 546/24, 546/278.7, 548/200, 548/364.1, 548/407, 548/408, 548/413, 548/517, 548/518, 548/523, 548/544

FIELD-OF-SEARCH: 548/413, 548/408, 548/407, 548/544, 548/517, 548/518, 548/523, 548/364.1, 548/200, 504/283, 504/252, 504/242, 504/225, 504/266, 546/24, 546/275, 546/278, 546/280, 546/281, 544/243, 544/333, 544/141

## REF-CITED:

## FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
415185	March 1991	EPX	548/544
0456063	November 1991	EPX	548/408
0521334	January 1993	EPX	548/408
521334	January 1993	EPX	548/544
0595130	May 1994	EPX	548/408

ART-UNIT: 121

PRIMARY-EXAMINER: McKane; Joseph K.

ATTY-AGENT-FIRM: Sprung Horn Kramer &amp; Woods

## ABSTRACT:

The present invention relates to 1-H-3-phenyl-5-cyloalkylpyrrolidine-2,4-diones of the formula (I) ##STR1## in which A represents optionally substituted cycloalkyl and

B represents hydrogen or optionally substituted alkyl,

X represents alkyl, halogen or alkoxy,

Y represents hydrogen, alkyl, halogen, alkoxy or halogenoalkyl,

Z represents alkyl, halogen or alkoxy,

n represents a number 0, 1, 2 or 3,

G represents hydrogen (a) or the groups ##STR2## These compounds possess herbicidal and pesticidal activity.

20 Claims, 0 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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Generate Collection

Terms	Documents
l7 and (acetonitrile or methylcyano)	66

Display

10

Documents, starting with Document:

41

Display Format:

FRO

Change Format



## Generate Collection

Search Results - Record(s) 41 through 50 of 66 returned.

☐ 41. Document ID: US 5565450 A

L8: Entry 41 of 66

File: USPT

Oct 15, 1996

US-PAT-NO: 5565450

DOCUMENT-IDENTIFIER: US 5565450 A

TITLE: 5-aryl-1,3-thiazine derivatives

DATE-ISSUED: October 15, 1996

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fischer; Reiner	Monheim	N/A	N/A	DEX
Lieb; Folker	Leverkusen	N/A	N/A	DEX
Ruther; Michael	Monheim	N/A	N/A	DEX
Stetter; J org	Wuppertal	N/A	N/A	DEX
Erdelen; Christoph	Leichlingen	N/A	N/A	DEX
Wachendorff-Neumann; Ulrike	Bonn	N/A	N/A	DEX
Dollinger; Markus	Leverkusen	N/A	N/A	DEX
L urssen; Klaus	Bergisch Gladbach	N/A	N/A	DEX
Santel; Hans-Joachim	West Haven	CT	N/A	N/A

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
<u>Bayer</u> Aktiengesellschaft	Leverkusen	N/A	N/A	DEX	03

APPL-NO: 8/ 448621

DATE FILED: June 6, 1995

## FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	42 43 818.7	December 23, 1992

## PCT-DATA:

APPL-NO	DATE-FILED	PUB-NO	PUB-DATE	371-DATE	102(E)-DATE
PCT/EP93/03483	December 10, 1993	WO94/14785	Jul 7, 1994	Jun 6, 1995	Jun 6, 1995

INT-CL: [6] A01N 43/86, C07D 279/06, C07D 417/12

US-CL-ISSUED: 514/227.2; 544/54

US-CL-CURRENT: 514/227.2; 544/54

FIELD-OF-SEARCH: 544/54, 514/227.2

## REF-CITED:

## FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
0010420	April 1980	EPX	
0245901	November 1987	EPX	
0503958	September 1992	EPX	

## OTHER PUBLICATIONS

Ketcham et al, "Synthesis of Heterocycles. etc", J. Heterocy. Chem (1973), 10(2), 223-224.  
Ziegler et al, "Synthesis of heterocycles. etc" CA60:15863d (1964).  
E. Ziegler, et al., Monatshefte F ur Chemie, vol. 95, No. 1, pp. 147-155, (1964).

ART-UNIT: 121

PRIMARY-EXAMINER: Morris; Patricia L.

ATTY-AGENT-FIRM: Sprung Horn Kramer & Woods

ABSTRACT:

The present invention relates to the new substituted 5-aryl-1,3-thiazine derivatives of general formula (I) ##STR1## in which A, G, X, Y and Z are defined in the specification and their use as pesticides, preferably as arthropodocides, nematocides and herbicides, as well as ecto- and endoparasiticides.

18 Claims, 0 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw Desc	Image
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☐ 42. Document ID: US 5554580 A

L8: Entry 42 of 66

File: USPT

Sep 10, 1996

US-PAT-NO: 5554580

DOCUMENT-IDENTIFIER: US 5554580 A

TITLE: N-aryl-substituted nitrogen-containing heterocycles intermediates and their use as herbicides and plant growth regulators

DATE-ISSUED: September 10, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fischer; Reiner	Monheim	N/A	N/A	DEX
Jensen-Korte; Uta	Duesseldorf	N/A	N/A	DEX
Kunisch; Franz	Odenthal-Gloebusch	N/A	N/A	DEX
Marhold; Albrecht	Leverkusen	N/A	N/A	DEX
Ooms; Pieter	Krefeld	N/A	N/A	DEX
Schallner; Otto	Monheim	N/A	N/A	DEX
Santel; Hans-Joachim	Leverkusen	N/A	N/A	DEX
Schmidt; Robert R.	Bergisch-Gladbach	N/A	N/A	DEX
Krauskopf; Birgit	Bergisch-Gladbach	N/A	N/A	DEX
Strang; Harry	Duesseldorf	N/A	N/A	DEX

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
<u>Bayer</u> Aktiengesellschaft	Leverkusen	N/A	N/A	DEX	03

APPL-NO: 7/ 918895

DATE FILED: July 20, 1992

PARENT-CASE:

This application is a continuation of application Ser. No. 618,355, filed Nov. 26, 1990, now abandoned, which is a division of application Ser. No. 435,898, filed Nov. 13, 1989, now U.S. Pat. No. 5,006,148.

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	38 39 480.4	November 23, 1988

INT-CL: [6] A01N 43/56, C07D 231/54, C07D 231/56

US-CL-ISSUED: 504/281; 548/360.1

US-CL-CURRENT: 504/281; 548/360.1

FIELD-OF-SEARCH: 548/369, 548/360.1, 71/92, 504/281

REF-CITED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>4059434</u>	November 1977	Wolf	548/369
<u>4108628</u>	August 1978	Wolf	548/369
<u>4124373</u>	November 1978	Wolf	548/369
<u>4124374</u>	November 1978	Wolf	548/369
<u>4608080</u>	August 1986	Haga et al.	548/369
<u>4624699</u>	November 1986	Nagano et al.	548/369
<u>4670043</u>	June 1987	Nagano et al.	548/369
<u>4695312</u>	September 1987	Hayase et al.	548/369
<u>4752325</u>	June 1988	Haga et al.	548/369
<u>4758673</u>	July 1988	Gihring et al.	548/375
<u>4826867</u>	May 1989	Jensen-Korte et al.	548/375

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
347382	December 1989	EPX	
233061	November 1985	JPX	
252465	December 1985	JPX	
291573	December 1986	JPX	
9987	January 1989	JPX	

ART-UNIT: 121

PRIMARY-EXAMINER: Ramsuer; Robert W.

ATTY-AGENT-FIRM: Sprung Horn Kramer & Woods

ABSTRACT:

The invention relates to novel N-aryl-substituted nitrogen-containing heterocycles, several processes and novel intermediates for their preparation, and their use as herbicides and plant growth regulators.

14 Claims, 0 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 43. Document ID: US 5508436 A

L8: Entry 43 of 66

File: USPT

Apr 16, 1996

US-PAT-NO: 5508436

DOCUMENT-IDENTIFIER: US 5508436 A

TITLE: N-phenylacetamino nitriles intermediates and process for making pyrroline-2 -

DATE-ISSUED: April 16, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fischer; Reiner	Monheim	N/A	N/A	DEX
Beck; Gunther	Leverkusen	N/A	N/A	DEX

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
<u>Bayer</u> Aktiengesellschaft	Leverkusen	N/A	N/A	DEX	03

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	42 36 400.0	October 28, 1992

INT-CL: [6] C07D 207/36, C07C 255/03  
US-CL-ISSUED: 548/544; 558/392  
US-CL-CURRENT: 548/544; 558/392  
FIELD-OF-SEARCH: 548/544, 558/392

REF-CITED:

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
0427907	May 1991	EPX	
0456063	November 1991	EPX	
419457	November 1934	GBX	

OTHER PUBLICATIONS

Chemical Abstracts 28-Heterocyclic Compounds, p. 1243, vol. 68, 1968; 12942a: "Lactams. X. The Synthesis of . . . ", V. G. Granik et al.  
"dl-.alpha.-Aminophenylacetic Acid", RE Steiger, pp. 23-25.  
Liebigs Ann. Chem., vol. 764, pp. 69-93, 1972: "Enamide", P. Kurtz et al.  
J. Org. Chem., vol. 43, No. 13, 1978, pp. 2576-2581; "Approach to the Use of Benzylpenicillinacylase for . . . " D. Rossi, et al.

ART-UNIT: 121  
PRIMARY-EXAMINER: Springer; David B.  
ATTY-AGENT-FIRM: Sprung Horn Kramer & Woods

ABSTRACT:

The present invention relates to novel N-phenylacetamino nitriles of the general formula (I), ##STR1## in which R.sup.1 represents hydrogen, or represents alkyl, alkenyl, cycloalkyl, aryl or heterocyclyl which are in each case optionally substituted, and

R.sup.2 represents hydrogen, or represents alkyl which is optionally substituted, or

R.sup.1 and R.sup.2, together with the carbon atom to which they are bonded, represent cycloalkyl or heterocyclyl which are in each case optionally substituted,

R.sup.3 represents halogen, alkyl or alkoxy,

R.sup.4 represents hydrogen, halogen, alkyl, halogenoalkyl or alkoxy,

R.sup.5 represents halogen, alkyl or alkoxy, and

m represents a number 0, 1, 2 or 3, processes for their preparation and their use for the preparation of agents for controlling pests.

5 Claims, 0 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	K/MC	Draw Desc	Image
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☐ 44. Document ID: US 5504057 A

L8: Entry 44 of 66

File: USPT

Apr 2, 1996

US-PAT-NO: 5504057  
DOCUMENT-IDENTIFIER: US 5504057 A

TITLE: Dialkyl-1-H-3-(2,4-dimethylphenyl)-pyrrolidine-2,4-diones, their preparation and their use

DATE-ISSUED: April 2, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fischer; Reiner	Monheim	N/A	N/A	DEX
Bretschneider; Thomas	Siegburg	N/A	N/A	DEX
Kruger; Bernd-Wieland	Bergisch Gladbach	N/A	N/A	DEX
Santel; Hans-Joachim	Leverkusen	N/A	N/A	DEX
Dollinger; Markus	Liechlingen	N/A	N/A	DEX
Erdelen; Christoph	Liechlingen	N/A	N/A	DEX
Wachendorff-Neumann; Ulrike	Monheim	N/A	N/A	DEX

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
<u>Bayer</u> Aktiengesellschaft	Leverkusen	N/A	N/A	DEX	03

APPL-NO: 8/ 200138

DATE FILED: February 22, 1994

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	43 06 259.8	March 1, 1993

INT-CL: [6] A01N 43/36, C07D 207/22

US-CL-ISSUED: 504/283; 504/225, 504/242, 504/252, 504/266, 544/243, 544/333, 544/141, 548/200, 548/364.1, 548/408, 548/413, 548/517, 548/518, 548/523, 548/544, 548/407, 546/24, 546/275, 546/278, 546/280, 546/281

US-CL-CURRENT: 504/283; 504/225, 504/242, 504/252, 504/266, 544/141, 544/230, 544/243, 544/333, 544/70, 546/15, 546/24, 548/200, 548/364.1, 548/407, 548/408, 548/413, 548/517, 548/518, 548/523, 548/544

FIELD-OF-SEARCH: 548/408, 548/407, 548/413, 548/517, 548/518, 548/523, 548/544, 548/200, 548/364.1, 544/141, 544/243, 504/283, 504/225, 504/252, 504/242, 504/266, 546/24, 546/275, 546/278, 546/280, 546/281

REF-CITED:

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
415185	March 1991	EPX	548/544
0456063	November 1991	EPX	548/408
521334	January 1993	EPX	548/544
0521334	January 1993	EPX	548/408
0595130	May 1994	EPX	548/408
0596298	May 1994	EPX	548/408

OTHER PUBLICATIONS

CA 116: 106083h Preparation . . . Insecticides, Krauskopf et al., p. 754, 1992.  
CA 119: 8676w: Substituted . . . Derivatives. Fischer et al., p. 891, 1993.

ART-UNIT: 121

PRIMARY-EXAMINER: McKane; Joseph K.

ATTY-AGENT-FIRM: Sprung Horn Kramer & Woods

ABSTRACT:

Dialkyl-1-H-3-(2,4-dimethylphenyl)-pyrrolidine-2,4-diones of the formula (I) ##STR1## in which A represents alkyl which is optionally substituted by halogen and

B represents C.sub.2 -C.sub.10 -alkyl or

A and B together with the carbon atom to which they are bonded represent an unsubstituted cycle,

G represents hydrogen (a) or the groups ##STR2## E represents a metal ion equivalent or an ammonium ion, L and M represent oxygen and/or sulphur. These compounds possess herbicidal and pesticidal activity.

20 Claims, 0 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KNOC	Draw Desc	Image
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☐ 45. Document ID: US 5502070 A

L8: Entry 45 of 66

File: USPT

Mar 26, 1996

US-PAT-NO: 5502070

DOCUMENT-IDENTIFIER: US 5502070 A

TITLE: Substituted 3,4-hetaryl-pyrazolines

DATE-ISSUED: March 26, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fuchs; Rainer	Wuppertal	N/A	N/A	DEX
Fischer; Reiner	Monheim	N/A	N/A	DEX
Erdelen; Christoph	Leichlingen	N/A	N/A	DEX
Stendel; Wilhelm	Wuppertal	N/A	N/A	DEX

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
<u>Bayer</u> Aktiengesellschaft	Leverkusen	N/A	N/A	DEX	03

APPL-NO: 8/ 129923

DATE FILED: September 30, 1993

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	42 33 717.8	October 7, 1992

INT-CL: [6] C07D 403/14, A01N 47/38

US-CL-ISSUED: 514/406; 546/256, 548/365.4

US-CL-CURRENT: 514/406; 546/256, 548/365.4

FIELD-OF-SEARCH: 546/256, 548/365.4, 514/406

REF-CITED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>4070365</u>	January 1978	van Daalen et al.	N/A
<u>4174393</u>	November 1979	van Daalen et al.	N/A
<u>5068241</u>	November 1991	Fuchs et al.	N/A
<u>5247094</u>	September 1993	Fuchs	548/268.4
<u>5250532</u>	October 1993	McLaren	514/256

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
466408	July 1991	EPX	
0466408	January 1992	EPX	
0508469	October 1992	EPX	
1514285	June 1978	GBX	
9429300	December 1994	WOX	

## OTHER PUBLICATIONS

McOmie, Protective Groups in Organic Chemistry pp. 53-61 (1975).  
Chemical Abstract, p. 811, 28-Heterocycles, vol. 118, 1993.

ART-UNIT: 121

PRIMARY-EXAMINER: Gerstl; Robert

ATTY-AGENT-FIRM: Sprung Horn Kramer & Wood

## ABSTRACT:

The present invention relates to new substituted 3,4-hetaryl-pyrazolines of the general formula (I) ##STR1## in which R<sup>sup.1</sup> represents an unsaturated five- or six-membered optionally substituted and optionally benzo-fused heterocyclic ring containing 1 to 4 nitrogen atoms, or represents an optionally substituted heterocyclic ring from the series comprising ##STR2## X represents oxygen or sulphur and Het represents an optionally substituted and/or optionally fused heterocyclic ring,

processes for their preparation and their use as agents for combating pests.

6 Claims, 0 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 46. Document ID: US 5474974 A

L8: Entry 46 of 66

File: USPT

Dec 12, 1995

US-PAT-NO: 5474974

DOCUMENT-IDENTIFIER: US 5474974 A

TITLE: 3-hydroxy-4-aryl-5-oxo-pyrazoline derivatives

DATE-ISSUED: December 12, 1995

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kruger; Bernd-Wieland	Bergisch-Gladbach	N/A	N/A	DEX
Fischer; Reiner	Monheim	N/A	N/A	DEX
Bertram; Heinz-Jurgen	Holzminden	N/A	N/A	DEX
Bretschneider; Thomas	Siegburg	N/A	N/A	DEX
Bohm; Stefan	Leverkusen	N/A	N/A	DEX
Krebs; Andreas	Odenthal-Holz	N/A	N/A	DEX
Schenke; Thomas	Bergisch Gladbach	N/A	N/A	DEX
Santel; Hans-Joachim	Leverkusen	N/A	N/A	DEX
Lurssen; Klaus	Bergisch Gladbach	N/A	N/A	DEX
Schmidt; Robert R.	Bergisch Gladbach	N/A	N/A	DEX
Erdelen; Christoph	Leichlingen	N/A	N/A	DEX
Wachendorff-Neumann; Ulrike	Monheim	N/A	N/A	DEX
Stendel; Wilhelm	Wuppertal	N/A	N/A	DEX

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Bayer Aktiengesellschaft	Leverkusen	N/A	N/A	DEX	03

APPL-NO: 8/ 233911

DATE FILED: April 28, 1994

## PARENT-CASE:

This application is a divisional of application Ser. No. 07/999,058, filed Dec. 31, 1992, now U.S. Pat. NO. 5,358,924 which is a c-i-p of application Ser. No. 07/849,863, filed Mar. 12, 1992, now abandoned.

## FOREIGN-APPL-PRIORITY-DATA:

COUNTRY

APPL-NO

APPL-DATE

DE

41 09 208.2

March 21, 1991

INT-CL: [6] A01N 43/58, C07D 487/04

US-CL-ISSUED: 504/236; 504/197, 504/219, 504/281, 504/282, 514/80, 514/85, 514/94, 514/221, 514/248, 514/404, 514/405, 540/542, 540/56.7, 544/232, 544/234, 544/235, 548/114, 548/116, 548/359.1, 548/363.1, 548/366.4

US-CL-CURRENT: 504/236; 504/197, 504/219, 504/281, 504/282, 514/221, 514/248, 514/404, 514/405, 514/80, 514/85, 514/94, 540/542, 540/567, 544/232, 544/234, 544/235, 548/114, 548/116, 548/359.1, 548/363.1, 548/366.4, 562/840, 562/849

FIELD-OF-SEARCH: 544/235, 544/232, 504/236, 504/197, 514/248

## REF-CITED:

## U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>31491.5</u>	September 1964	Brabander et al.	544/230
<u>5332720</u>	July 1994	Kruger et al.	504/281
<u>5358924</u>	October 1994	Kruger et al.	504/197

## FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
9216510	October 1992	WOX	

## OTHER PUBLICATIONS

Vlasov et al, Chemical Abstracts, vol. 73, No. 13946 (1970).  
Kornet et al, Chemical Abstracts, vol. 82, No. 25959 (1975).  
D'Alo et al, Chemical Abstracts, vol. 88, No. 136549 (1978).  
Potts et al Journal of the Chemical Society, Chemical Communications, No. 11, 1987, pp. 840-842.  
Kappe et al Monatshefte Fur Chemie, vol. 119, No. 6/7, Jun./Jul. 1988 pp. 727-737.  
Zvilichovsky Journal of Heterocyclic Chemistry, vol. 25, No. 5, Sep.-Oct. 1988, pp. 1301-1305.  
Zvilichovsky et al Journal of Heterocyclic Chemistry, vol. 25, No. 5, Sep.-Oct. 1988, pp. 1307-1310.  
Potts et al The Journal of Organic Chemistry, vol. 53, No. 13, 24 Jun. 1988 pp. 2889-2898.  
Ried et al Synthesis, No. 2; 1 Feb. 1990, pp. 167-170.  
Lora-Tamayo, Chem Abstracts, vol. 84 (1976) No. 17235n.

ART-UNIT: 122

PRIMARY-EXAMINER: Bernhardt; Emily

ATTY-AGENT-FIRM: Sprung Horn Kramer &amp; Woods

## ABSTRACT:

There are provided new 3-hydroxy-4-aryl-5-oxo-pyrazoline derivatives of the formula (I) ##STR1## The new 3-hydroxy-4-aryl-5-oxo-pyrazoline derivatives of the formula (I) have a particularly pronounced activity against animal pests, in particular against insects and arachnids, and against weeds.

11 Claims, 0 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 47. Document ID: US 5462913 A

L8: Entry 47 of 66

File: USPT

Oct 31, 1995

US-PAT-NO: 5462913

DOCUMENT-IDENTIFIER: US 5462913 A

TITLE: Substituted 1-H-3-aryl-pyrrolidine-2,4-dione derivatives



DATE-ISSUED: October 31, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fischer; Reiner	Monheim	N/A	N/A	DEX
Bretschneider; Thomas	Siegburg	N/A	N/A	DEX
Kruger; Bernd-Wieland	Bergisch Gladbach	N/A	N/A	DEX
Erdelen; Christoph	Leichlingen	N/A	N/A	DEX
Santel; Hans-Joachim	Leverkusen	N/A	N/A	DEX
Lurssen; Klaus	Bergisch Gladbach	N/A	N/A	DEX
Schmidt; Robert R.	Bergisch Gladbach	N/A	N/A	DEX
Wachendorff-Neumann; Ulrike	Monheim	N/A	N/A	DEX
Stendel; Wilhelm	Wuppertal	N/A	N/A	DEX

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
<u>Bayer</u> Aktiengesellschaft	Leverkusen	N/A	N/A	DEX	03

APPL-NO: 8/ 140635

DATE FILED: October 21, 1993

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	42 36 401.9	October 28, 1992
DE	43 26 909.5	August 11, 1993

INT-CL: [6] A61K 31/535, A01N 43/38, C07D 413/04, C07D 413/14

US-CL-ISSUED: 504/138; 544/142, 548/408, 548/410, 548/411, 514/237.2, 514/409

US-CL-CURRENT: 504/138; 514/237.2, 514/409, 544/142, 548/408, 548/410, 548/411

FIELD-OF-SEARCH: 544/142, 548/408, 548/410, 548/411, 504/138, 514/237.2, 514/409

REF-CITED:

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
442073	December 1990	EPX	
456063	April 1991	EPX	
501129	January 1992	EPX	
521334	June 1992	EPX	

OTHER PUBLICATIONS

Fischer et al., Chemical Abstracts 119(1):8676w, Jul. 5, 1993 Abstract of EP 521334.  
Krauskopf et al., Chemical Abstracts 116(11) 106083h, Mar. 16, 1992 Abstract of EP 456,063.

Chemical Abstracts, vol. 53, Aug. 25, 1959, No. 16, "1-Apparatus, Plant Equipment, and Operations".

ART-UNIT: 122

PRIMARY-EXAMINER: Shah; Mukund J.

ASSISTANT-EXAMINER: Grumbling; Matthew V.

ATTY-AGENT-FIRM: Sprung Horn Kramer & Woods

ABSTRACT:

The invention relates to new 1-H-3-aryl-pyrrolidine-2,4-dione derivatives of the formula (I) ##STR1## in which A and B together with the carbon atom to which they are bonded represent a substituted cycle,

X represents alkyl, halogen or alkoxy,

Y represents hydrogen, alkyl, halogen, alkoxy or halogenoalkyl,

Z represents alkyl, halogen or alkoxy,

n represents 0, 1, 2 or 3,

G represents hydrogen (a) or the groups ##STR2## represents a metal ion equivalent or an ammonium ion, L and M represents oxygen and/or sulphur,

R.sup.1 represents in each case optionally halogen-substituted alkyl, alkenyl, alkoxyalkyl, alkylthioalkyl, polyalkoxyalkyl or cycloalkyl, which can be interrupted by hetero atoms, optionally substituted phenyl, optionally substituted phenylalkyl, substituted hetaryl, substituted phenoxyalkyl or substituted hetaryloxyalkyl,

R.sup.2 represents in each case optionally halogen-substituted alkyl, alkenyl, alkoxyalkyl, polyalkoxyalkyl or in each case optionally substituted phenyl or benzyl,

R.sup.3, R.sup.4 and R.sup.5 independently of one another represent in each case optionally halogen-substituted alkyl, alkoxy, alkylamino, dialkylamino, alkylthio, alkenylthio, cycloalkylthio and in each case optionally substituted phenyl, phenoxy or phenylthio,

R.sup.6 and R.sup.7 independently of one another represent hydrogen, in each case optionally halogen-substituted alkyl, alkenyl, alkoxy, alkoxyalkyl, or represent optionally substituted phenyl, optionally substituted benzyl, or, together with the adjacent N-atom, represent a cycle which is optionally interrupted by oxygen or sulphur,

to processes for their preparation, and to their use as pesticides.

6 Claims, 0 Drawing figures

Full Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 48. Document ID: US 5393729 A

L8: Entry 48 of 66

File: USPT

Feb 28, 1995

US-PAT-NO: 5393729

DOCUMENT-IDENTIFIER: US 5393729 A

TITLE: 3-aryl-pyrone derivatives

DATE-ISSUED: February 28, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fischer; Reiner	Monheim	N/A	N/A	DEX
Krebs; Andreas	Odenthal	N/A	N/A	DEX
Lieb; Folker	Leverkusen	N/A	N/A	DEX
Ruther; Michael	Monheim	N/A	N/A	DEX
Stetter; Jorg	Wuppertal	N/A	N/A	DEX
Erdelen; Christoph	Leichlingen	N/A	N/A	DEX
Wachendorff-Neumann; Ulrike	Monheim	N/A	N/A	DEX
Lurssen; Klaus	Bergisch Gladbach	N/A	N/A	DEX
Santel; Hans-Joachim	Leverkusen	N/A	N/A	DEX
Schmidt; Robert R.	Bergisch Gladbach	N/A	N/A	DEX

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Bayer Aktiengesellschaft	Leverkusen	N/A	N/A	DEX	03

APPL-NO: 8/ 116790

DATE FILED: September 3, 1993

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	4230267	September 10, 1992
DE	4308451	March 17, 1993

INT-CL: [6] C07D 309/38, C07D 311/74, C07D 493/04, A01N 43/16  
US-CL-ISSUED: 504/128; 504/140, 514/451, 514/456, 514/457, 544/149, 546/207, 546/268,  
549/23, 549/50, 549/60, 549/216, 549/285, 549/291, 549/292  
US-CL-CURRENT: 504/128; 504/140, 514/451, 514/456, 514/457, 544/149, 546/207, 546/22,  
546/269.7, 546/275.4, 546/276.4, 546/280.4, 546/282.1, 549/216, 549/23, 549/285, 549/291,  
549/292, 549/50, 549/60  
FIELD-OF-SEARCH: 549/291, 549/292, 549/216, 549/285, 549/23, 549/50, 549/60, 504/140,  
504/128, 514/456, 514/457

REF-CITED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>2884427</u>	April 1959	Emerson et al.	549/285 X

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
0483582	May 1992	EPX	
1593273	July 1970	DEX	

OTHER PUBLICATIONS

Chemical Abstracts, vol. 57, No. 10, 12 Nov. 1962, Abstract No. 12418b.  
Registry Handbook CAS 1985, RN: 98054-07-0.  
Bulletin de la Societe Chimique de France 1962, Paris, FR, pp. 365-369.  
Chemical Abstracts, vol. 109, No. 19, 7 Nov. 1988, Abstracts No. 170174w.  
Chemical Abstracts, vol. 86, No. 23, 6 Jun. 1977, Abstract No. 167911k.  
Barton et al, J. Chem. Soc. Perkin Trans. 1, 1992, pp. 1365-1375.  
Van Zanten et al, Chemical Abstracts, 61:4303e-g (1964).  
Wagh et al, Ind. J. Chem., vol. 14B, Nov. 1976, pp. 861-863.

ART-UNIT: 121

PRIMARY-EXAMINER: Ramsuer; Robert W.

ASSISTANT-EXAMINER: Powers; Fiona T.

ATTY-AGENT-FIRM: Gerstenzang; William C.

ABSTRACT:

The invention relates to 3-aryl-pyrone derivatives of the general formula (I) ##STR1## in which the substituents are as defined in the specification. The compounds are useful as pesticides, herbicides and fungicides.

10 Claims, 0 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	RMC	Draw Desc	Image
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☐ 49. Document ID: US 5358924 A

L8: Entry 49 of 66

File: USPT

Oct 25, 1994

US-PAT-NO: 5358924

DOCUMENT-IDENTIFIER: US 5358924 A

TITLE: 3-hydroxy-4-aryl-5-oxo-pyrozoline derivatives, compositions and use

DATE-ISSUED: October 25, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kruger; Bernd-Wieland	Bergisch-Gladbach	N/A	N/A	DEX
Fischer; Reiner	Monheim	N/A	N/A	DEX
Bertram; Heinz-Jurgen	Holzminden	N/A	N/A	DEX
Bretschneider; Thomas	Siegburg	N/A	N/A	DEX
Bohm; Stefan	Leverkusen	N/A	N/A	DEX
Krebs; Andreas	Odenthal-Holz	N/A	N/A	DEX
Schenke; Thomas	Bergisch Gladbach	N/A	N/A	DEX
Santel; Hans-Joachim	Leverkusen	N/A	N/A	DEX
Lurssen; Klaus	Bergisch Gladbach	N/A	N/A	DEX
Schmidt; Robert R.	Bergisch Gladbach	N/A	N/A	DEX
Erdelen; Christoph	Leichlingen	N/A	N/A	DEX
Wachsmorff-Neumann; Ulrike	Monheim	N/A	N/A	DEX
Stender; Wilhelm	Wuppertal	N/A	N/A	DEX

#### ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
<u>Bayer</u> Aktiengesellschaft	Leverkusen	N/A	N/A	DEX	03

APPL-NO: 7/ 999058

DATE FILED: December 31, 1992

#### PARENT-CASE:

This application is a continuation-in-part of Ser. No. 849,863, filed Mar. 12, 1992, now abandoned.

#### FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	4109208	March 21, 1991

INT-CL: [5] A01N 57/24, C07D 237/26, C07F 9/40

US-CL-ISSUED: 504/197; 504/236, 514/80, 514/248, 544/232, 544/235

US-CL-CURRENT: 504/197; 504/236, 514/248, 514/80, 544/232, 544/235

FIELD-OF-SEARCH: 544/232, 544/235, 504/197, 504/236, 514/80, 514/248

#### REF-CITED:

#### FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
9216510	October 1992	WOX	

#### OTHER PUBLICATIONS

Lora-Tamayo, Chem Abstracts, vol. 84 (1976) No. 17235n.

ART-UNIT: 121

PRIMARY-EXAMINER: Ramsuer; Robert W.

ATTY-AGENT-FIRM: Sprung Horn Kramer & Woods

#### ABSTRACT:

There are provided new 3-hydroxy-4-aryl-5-oxo-pyrazoline derivatives of the formula (I) ##STR1## in which A and B are identical or different and independently of one another in each case represent hydrogen, alkyl, alkenyl, alkynyl, alkoxyalkyl, alkythioalkyl, cycloalkyl or optionally substituted aryl or

A and B together represent the bivalent radical of a saturated or unsaturated, optionally substituted, mono-, bi-, tri- or polycyclic system,

X represents alkyl, halogen or alkoxy,

Y represents hydrogen, alkyl, halogen, alkoxy or halogenoalkyl,

Z represents alkyl, halogen or alkoxy,

n represents a number 0, 1, 2 or 3,

G represents hydrogen (a) or the groups ##STR2## in which E represents a metal ion equivalent or an ammonium ion,

L and M represents oxygen and/or sulphur,

and R.sup.1, R.sup.2, R.sup.3, R.sup.4, R.sup.5, R.sup.6 and R.sup.7 have the meaning given in the text of the application.

The new 3-hydroxy-4-aryl-5-oxo-pyrazoline derivatives of the formula (I) have a particularly pronounced activity against animal pests, in particular against insects and arachnids, and against weeds.

20 Claims, 0 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ :). Document ID: US 5338860 A

L8: Entry 50 of 66

File: USPT

Aug 16, 1994

US-PAT-NO: 5338860

DOCUMENT-IDENTIFIER: US 5338860 A

TITLE: 4-(substituted)amino-3-arylpyrrolinone derivatives

DATE-ISSUED: August 16, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Baasner; Bernd	Bergisch Gladbach	N/A	N/A	DEX
Fischer; Reiner	Monheim	N/A	N/A	DEX
Widdig; Arno	Odenthal-Blecher	N/A	N/A	DEX
Lursse; Klaus	Bergisch Gladbach	N/A	N/A	DEX
Santel; Hans-Joachim	Leverkusen	N/A	N/A	DEX
Schmidt; Robert R.	Bergisch Gladbach	N/A	N/A	DEX

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Bayer Aktiengesellschaft	Leverkusen	N/A	N/A	DEX	03

APPL-NO: 7/ 985377

DATE FILED: December 4, 1992

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	4141399	December 16, 1991

INT-CL: [5] C07D 207/263, A01N 43/36

US-CL-1 ISSUED: 548/550

US-CL-CURRENT: 548/550

FIELD-OF-SEARCH: 548/550, 504/302

REF-CITED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
464376	February 1987	Ward	548/541
519 089	March 1993	Baasner et al.	548/550

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO  
0262391  
0377393  
0415185

PUBN-DATE  
April 1988  
July 1990  
March 1991

COUNTRY  
EPX  
EPX  
EPX

US-CL

ART-UNIT: 121  
PRIMARY-EXAMINER: Springer; David B.  
ATTY-AGENT-FIRM: Sprung Horn Kramer & Woods

**ABSTRACT:**

The invention relates to new 4-(substituted)amino-3-arylpyrrolinone derivatives of the general formula (I) ##STR1## in which X, Y, Z, n, B, M, L and A are as defined in the description, to a process and new intermediates for their preparation, and to their use as herbicides.

8 Claims, 0 Drawing figures

Full Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMIC	Draw Desc	Image
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17 and (acetonitrile or methylcyano)	66

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10

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51

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Search Results - Record(s) 51 through 60 of 66 returned.

51. Document ID: US 5332720 A

L8: Entry 51 of 66

File: USPT

Jul 26, 1994

US-PAT-NO: 5332720

DOCUMENT-IDENTIFIER: US 5332720 A

TITLE: 3-hydroxy-4-aryl-5-oxo-pyrazoline derivatives

DATE-ISSUED: July 26, 1994

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kruger; Bernd-Wieland	Bergisch-Gladbach	N/A	N/A	DEX
Fischer; Reiner	Monheim	N/A	N/A	DEX
Bertram; Heinz-Jurgen	Holzminden	N/A	N/A	DEX
Bretschneider; Thomas	Siegburg	N/A	N/A	DEX
Bohm; Stefan	Leverkusen	N/A	N/A	DEX
Krebs; Andreas	Odenthal-Holz	N/A	N/A	DEX
Schenke; Thomas	Bergisch Gladbach	N/A	N/A	DEX
Santel; Hans-Joachim	Leverkusen	N/A	N/A	DEX
Lurssen; Klaus	Bergisch Gladbach	N/A	N/A	DEX
Schmidt; Robert R.	Bergisch Gladbach	N/A	N/A	DEX
Erdelen; Christoph	Leichlingen	N/A	N/A	DEX
Wachendorff-Neumann; Ulrike	Monheim	N/A	N/A	DEX
Stendel; Wilhelm	Wuppertal	N/A	N/A	DEX

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Bayer Aktiengesellschaft	Leverkusen	N/A	N/A	DEX	03

APPL-NO: 7/ 968888

DATE FILED: December 16, 1992

## PARENT-CASE:

This is a division, of application Ser. No. 849,863, filed Mar. 12, 1992, now abandoned.

## FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	4109208	March 21, 1991

INT-CL: [5] A01N 43/56, C07D 231/54

US-CL-ISSUED: 504/281; 514/405, 548/360.1

US-CL-CURRENT: 504/281; 514/405, 548/360.1

FIELD-OF-SEARCH: 504/281, 514/405, 548/360.1

## REF-CITED:

## U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>314911</u>	September 1964	Brabander et al.	548/365
<u>3449359</u>	June 1969	Testa et al.	548/359

## FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO  
9216519

PUBN-DATE  
October 1992

COUNTRY  
WOX

US-CL

#### OTHER PUBLICATIONS

Journal of the Chemical Society, Chemical Communications, No. 11, 1987, pp. 840-842.  
Monatshefte Fur Chemie, vol. 119, No. 6/7, Jun./Jul. 1988 pp. 727-737.  
Chemical Abstracts, vol. 73, No. 3, 20 Jul. 1970, p. 290.  
Journal of Heterocyclic Chemistry, vol. 25, No. 5, Sep.-Oct. 1988, pp. 1301-1305.  
Journal of Heterocyclic Chemistry, vol. 25, No. 5, Sep.-Oct. 1988, pp. 1307-1310.  
The Journal of Organic Chemistry, vol. 53, No. 13, 24 Jun. 1988, pp. 2889-2898.  
Synthesis, No. 2, 1 Feb. 1990, pp. 167-170.

ART-UNIT: 121  
PRIMARY-EXAMINER: Ramsuer; Robert W.  
ATTY-AGENT-FIRM: Sprung Horn Kramer & Woods

#### ABSTRACT :

There are provided new 3-hydroxy-4-aryl-5-oxo-pyrazoline derivatives of the formula (I)  
##STR1## The new 3-hydroxy-4-aryl-5-oxo-pyrazoline derivatives of the formula (I) have a particularly pronounced activity against animal pests, in particular against insects and arachnids, and against weeds.

9 Claims, 0 Drawing figures

FILED	CLASS	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 52. Document ID: US 5288874 A

L8: Entry 52 of 66

File: USPT

Feb 22, 1994

US-PAT-NO: 5288874  
DOCUMENT-IDENTIFIER: US 5288874 A

TITLE: Substituted bicyclic 3-aryl-pyrrolidine-2,4-dione derivatives and herbicidal and pesticidal use thereof

DATE-ISSUED: February 22, 1994

#### INVENTOR- INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Santel; Hans-Joachim	Leverkusen	N/A	N/A	DEX
Schmidt; Robert R.	Bergisch Gladbach	N/A	N/A	DEX
Wachendorff-Neumann; Ulrike	Monheim	N/A	N/A	DEX
Erdelen; Christoph	Leichlingen	N/A	N/A	DEX
Bretschneider; Thomas	Siegburg	N/A	N/A	DEX
Fischer; Reiner	Monheim	N/A	N/A	DEX
Hagmann; Hermann	Leverkusen	N/A	N/A	DEX
Kruger; Bernd-Wieland	Leverkusen	N/A	N/A	DEX
Lurssen; Klaus	Bergisch Gladbach	N/A	N/A	DEX

#### ASSIGNEE- INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Bayer Aktiengesellschaft	Leverkusen	N/A	N/A	DEX	03

APPL-NO: 7/ 826303  
DATE FILED: January 24, 1992

#### FOREIGN-APPL- PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	4102778	January 31, 1991



INT-CL: [5] C07D 487/04, A01N 43/36  
US-CL-ISSUED: 548/453; 504/284  
US-CL-CURRENT: 548/453; 504/284  
FIELD-OF-SEARCH: 548/453, 548/531, 514/423, 71/95, 504/284

REF-TO: D:

#### U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>4921808</u>	May 1990	Terao et al.	514/425
<u>493563</u>	January 1991	Fischer et al.	548/453

#### FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
0351099	August 1989	EPX	

#### OTHER PUBLICATIONS

Seikiichi Suzuki, Chem. Pharm. Bull., 1967, pp. 1120-1122.  
Roland Schmierer, in Liebigs Ann. Chem., Oct. 29, 1984.  
Chemical Abstracts, vol. 106, 103, 815 (corresponds to German Patent 3,525,109) (Jan., 1991).  
Chem. Reviews 52, 1953, pp. 269-277.  
H. L. Harrison, Chemistry and Industry, 1968, p. 1568.  
William F. Spillane, J. Chem. Soc., 1982, pp. 677-679.

ART-UNIT: 121

PRIMARY EXAMINER: Springer; David B.

ATTY-AGENT-FIRM: Sprung Horn Kramer & Woods

#### ABSTRACT:

Insecticidal, ascaracidal and herbicidal bicyclic 3-aryl-pyrrolidine-2,4-dione derivatives of the formula (I) ##STR1## wherein A and Q together represent an alkanediyl, alkenediyl, alkenedienyl or alkenetrienylyl group having 3 to 6 carbon atoms, each of these groups being monosubstituted to polysubstituted by identical or different substituents, each of these groups being substituted by halogen, hydroxyl, mercapto, in each case optionally substituted alkyl, alkoxy, alkylthio, cycloalkyl or aryl, and each of these groups additionally being interrupted, if appropriate, by one of the groups below ##STR2## B represents hydrogen or alkyl, X represents alkyl, halogen or alkoxy,

Y represents hydrogen, alkyl, halogen, alkoxy or halogenoalkyl,

Z represents alkyl, halogen or alkoxy,

n represents a number 0, 1, 2 or 3,

G represents hydrogen (a) or the groups ##STR3## in which R.sup.1, R.sup.2, R.sup.3, R.sup.4, R.sup.5, R.sup.6, R.sup.7 and R.sup.8, L, M and E are defined in the specification.

7 Claims, 0 Drawing figures

Patent	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw. Desc	Image
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Document ID: US 5268509 A

L8: Entry 53 of 66

File: USPT

Dec 7, 1993

US-PAT-NO: 5268509

DOCUMENT-IDENTIFIER: US 5268509 A

TITLE: Process for the preparation of an iron catalyst and a process for the preparation of primary amines by the hydrogenation of nitriles using said iron catalyst

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Immel; Otto	Krefeld	N/A	N/A	DEX
Liebsch; Dietrich	Leverkusen	N/A	N/A	DEX
Schwarz; Hans-H.	Krefeld	N/A	N/A	DEX
Wendel; Stephan	Leverkusen	N/A	N/A	DEX
Fischer; Peter	Odenthal-Osenau	N/A	N/A	DEX

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Baye Aktiengesellschaft	Leverkusen	N/A	N/A	DEX	03

APPL-NO: 5/ 535801

DATE-FILED: June 11, 1990

## FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	3919694	June 16, 1989

INT-CL: [5] C07C 209/48

US-CL-ISSUED: 564/492; 534/838, 558/467, 564/461, 564/491

US-CL-PRIORITY: 564/492; 534/838, 558/467, 564/461, 564/491

FIELD-OF-SEARCH: 564/415, 564/490, 564/491, 564/492, 564/493, 564/461, 502/316, 502/338, 534/838, 558/467

## REF-CITED:

## U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>1215711</u>	May 1917	Bosch et al.	502/338
<u>3696153</u>	October 1972	Kershaw et al.	260/583
<u>377844</u>	September 1973	Bivens et al.	260/583K
<u>398185</u>	October 1976	Dewdney et al.	564/492
<u>4064172</u>	December 1977	Dewdney et al.	260/583
<u>4301032</u>	November 1981	Atkinson et al.	252/443
<u>4480051</u>	October 1984	Wu	564/492
<u>4511781</u>	June 1985	Frank et al.	502/184
<u>4587003</u>	May 1986	Frank et al.	502/185

## FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
0848654	August 1950	DEX	
848651	July 1952	DEX	
1486800	September 1977	GBX	
2092015	August 1982	GBX	

ART-UNIT: 129

PRIMARY-EXAMINER: Raymond; Richard L.

ASSISTANT-EXAMINER: O'Sullivan; Peter G.

ATTY-AGENT-FIRM: Gil; Joseph C. Henderson; Richard E. L.

## ABSTRACT:

This invention relates to a process for the preparation of an iron catalyst used for the hydrogenation of organic compounds comprising partially oxidizing iron or an iron alloy in particulate form at an elevated temperature in the presence of gaseous oxygen until a weight gain of from 5% to 32% is obtained; and then reducing the partially oxidized iron or iron alloy at an elevated temperature in a stream of hydrogen.

The invention also relates to a process for the preparation of primary amines comprising catalytically hydrogenating nitriles corresponding to said primary amines in the presence

of an iron catalyst of the invention.

5 Claims, 0 Drawing figures

Pub. No.	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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Document ID: US 5225434 A

L8: Entry 54 of 66

File: USPT

Jul 6, 1993

US-PAT-NO: 5225434

DOCUMENT-IDENTIFIER: US 5225434 A

TITLE: Pesticidal and herbicidal polycyclic 3-aryl-pyrrolidine-2,4-dione derivatives

DATE-FILED: July 6, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bertel, Heinz-Jurgen	Bonn	N/A	N/A	DEX
Fischer, Reiner	Monheim	N/A	N/A	DEX
Hagen, Hermann	Leverkusen	N/A	N/A	DEX
Krueger, Bernd-Wieland	Bergisch Gladbach	N/A	N/A	DEX
Schenker, Thomas	Bergisch Gladbach	N/A	N/A	DEX
Erdelmeier, Christoph	Leichlingen	N/A	N/A	DEX
Krauskopf, Birgit	Bergisch Gladbach	N/A	N/A	DEX
Lurzen, Klaus	Bergisch Gladbach	N/A	N/A	DEX
Santol, Hans-Joachim	Leverkusen	N/A	N/A	DEX
Schmidt, Robert R.	Bergisch-Gladbach	N/A	N/A	DEX
Wachendorff-Neumann, Ulrike	Monheim	N/A	N/A	DEX

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Bayar Aktiengesellschaft	Leverkusen	N/A	N/A	DEX	03

APPL-NO: 7/ 651679

DATE FILED: February 6, 1991

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	4004321	February 13, 1990
DE	4032090	October 10, 1990

INT-CL: [5] C07D 471/08, C07D 487/18, A01N 43/12, A01N 57/10

US-CO-FILED: 514/411; 514/80, 514/294, 546/23, 546/94, 548/114, 548/428

US-CO-CURRENT: 514/411; 514/294, 514/80, 546/23, 546/94, 548/114, 548/428

FIELD-OF-SEARCH: 548/428, 548/114, 514/411, 514/294, 514/80, 546/23, 546/94

REF-CIT:

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
0262899	April 1988	EPX	
0355599	August 1989	EPX	

OTHER PUBLICATIONS

Liebigs Annalen der Chemie, No. 5, 1985, pp. 1095-1098, Weinheim, DE; R. Schmierer et al.: "Cyclisierung von N-Acylalanin- und N-Acylglycinestern".

ART-UNIT : 121  
PRIMARY EXAMINER: Lee; Mary C.  
ASSISTANT-EXAMINER: Gabilan; Mary Susan H.  
ATTY-INT-FIRM: Sprung Horn Kramer & Woods

ABSTRACT

Insecticidal, acaricidal and herbicidal polycyclic 3-aryl-pyrrolidine-2,4-dione derivatives of the formula ##STR1## in which A represents the radical of a bi-, tri- or polycyclic system which is optionally interrupted by further hetero atoms or groups of hetero atoms,

X represents alkyl, halogen or alkoxy,

Y represents hydrogen, alkyl, halogen, alkoxy or halogenoalkyl,

Z represents alkyl, halogen or alkoxy,

n represents a number from 0-3, and

G represents hydrogen or various organic radicals.

16 Claims, 0 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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□ 55 Document ID: US 5221318 A

L8: Entry 55 of 66

File: USPT

Jun 22, 1993

US-PAT-NO: 5221318

DOCUMENT-IDENTIFIER: US 5221318 A

TITLE: herbicidal N-aryl-substituted nitrogen-containing heterocycles

DATE-ISSUED: June 22, 1993

INVENTOR INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fischer, Reiner	Monheim	N/A	N/A	DEX
Jensen-Morte, Uta	Duesseldorf	N/A	N/A	DEX
Kunze, Franz	Odenthal	N/A	N/A	DEX
Marhold, Albrecht	Leverkusen	N/A	N/A	DEX
Ooms, Pieter	Krefeld	N/A	N/A	DEX
Schallinger, Otto	Monheim	N/A	N/A	DEX
Santol, Hans-Joachim	Leverkusen	N/A	N/A	DEX
Schulze, Robert R.	Bergisch Gladbach	N/A	N/A	DEX
Strand, Harry	Duesseldorf	N/A	N/A	DEX

ASSIGNER INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Bay AG Abtengesellschaft	Leverkusen	N/A	N/A	DEX	03

APPL-NO: 7/ 746842

DATE-FILED: August 19, 1991

PARENT CASE:

This is a division of application Ser. No. 649,101, filed Feb. 1, 1991, now U.S. Pat. No. 5,066,711 which is a div. of appln. Ser. No. 419,809, filed Oct. 11, 1989, now abandoned.

FOREIGN APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	3835168	October 15, 1988

INT-CLASS: [5] A01N 43/36, C07D 207/40

US-C-FILED: 504/283; 548/545

REF-CITED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>3878</u> 2	April 1975	Matsui et al.	260/326
<u>4919</u> 2	April 1990	Moser et al.	548/513

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
0061741	October 1982	EPX	548/476
0190778	August 1986	EPX	548/545
0216240	September 1986	EPX	548/545
0211800	February 1987	EPX	548/545
0259045	August 1987	EPX	548/545
0303573	August 1988	EPX	548/545
36403 2	December 1986	DEX	548/545
2046704	April 1979	GBX	548/545

OTHER PUBLICATIONS

CA 111997078c, Preparation of . . . as herbicides, Moser et al., 1989, p. 727.  
CA 1119972017d, Preparation of . . . as herbicides, Fischer et al., 1990, p. 706.

ART-UNIT: 121  
PRIMARY-EXAMINER: Lee; Mary  
ASSISTANT-EXAMINER: McKane; Joseph K.  
ATTY-AGENT-FIRM: Sprung Horn Kramer & Woods

ABSTRACT:

Herbicidal N-aryl-substituted nitrogen-containing heterocycles of the formula ##STR1## in which H<sub>1</sub> represents a heterocycle of the formula ##STR2## R<sup>sup.1</sup> represents hydrogen or halogen and R<sup>sup.2</sup> represents halogen, hydroxyl or represents a radical --Z<sup>sup.2</sup>  
--R<sup>sup.3</sup> or S,

where

X<sup>sup.1</sup> represents oxygen, represents a --CH<sub>sub.2</sub> -- group, represents a ##STR3## group or represents a ##STR4## group, X<sup>sup.2</sup> represents nitrogen or a CH group,

Z<sup>sup.1</sup> represents oxygen or sulphur,

Z<sup>sup.2</sup> represents oxygen or sulphur,

R<sup>sup.3</sup> and R<sup>sup.4</sup> independently of one another in each case represent hydrogen or alkyl,

R<sup>sup.5</sup> and R<sup>sup.6</sup> either independently of one another in each case represent hydrogen or alkyl or together represent a double-linked alkanediyl radical

R<sup>sup.7</sup> represents hydrogen, alkyl or represents optionally substituted aryl and

R<sup>sup.8</sup> represents in each case optionally substituted alkyl, alkenyl, alkynyl or cycloalkyl.

12 Claims, 0 Drawing figures

Full	File	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ Document ID: US 5191089 A

US-PAT-NO: 5191089  
DOCUMENT-IDENTIFIER: US 5191089 A

TITLE: Herbicidal 4-alkoxy- and 4-(substituted)amino-arylpyrrolinone derivatives

DATE-ISSUED: March 2, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Baasch; Bernd	Bergisch Gladbach	N/A	N/A	DEX
Fisch; Reiner	Monheim	N/A	N/A	DEX
Lurssen; Klaus	Bergisch Gladbach	N/A	N/A	DEX
Santel; Hans-Joachim	Leverkusen	N/A	N/A	DEX
Schmidt; Robert R.	Bergisch Gladbach	N/A	N/A	DEX

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Bayer Aktiengesellschaft	Leverkusen	N/A	N/A	DEX	03

DISCLAIMER DATE: 20080903

APPL-NO: 7/ 565536  
DATE FILED: August 9, 1990

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	3928504	August 29, 1989

INT-CL: [5] C07D 207/38

US-CL-ISSUED: 548/550; 504/283, 504/219, 504/225, 504/235, 504/287, 504/252, 504/239, 504/165, 504/167, 504/168

US-CL-CURRENT: 548/550; 504/166, 504/167, 504/168, 504/219, 504/225, 504/235, 504/239, 504/284, 504/283, 504/287

FIELD OF-SEARCH: 548/550

REF-CITED:

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
0262369	April 1988	EPX	548/550
0026970	November 1964	JPX	548/550
0004150	February 1967	JPX	

OTHER PUBLICATIONS

Liebigs Ann. Chem., 1985, pp. 1095-1098, R. Schmierer et al.; Cyclisierung von N-Acyl-Dienin- und N-Acylglycinestern.

ART-UNIT: 121

PRIMA-EXAMINER: Springer; David B.

ATTY-AGENT-FIRM: Sprung Horn Kramer & Woods

ABSTRACT:

Herbicidal 4-alkoxy- and 4-(substituted)amino-arylpyrrolinone derivatives of the formula ##STR## in which X and Y independently of one another represent hydrogen, halogen, alkyl, alkoxy, halogenoalkyl or in each case unsubstituted or substituted aryloxy or arylthio,

Z represents halogen, alkyl or alkoxy,

n represents the number 0, 1, 2 or 3,

A represents in each case unsubstituted or in each case halogen-substituted alkyl, alkenyl, alkynyl, alkoxyalkyl, polyalkoxyalkyl or alkylthioalkyl, cycloalkyl which is optionally interrupted by hetero atoms, arylalkyl which is unsubstituted or substituted by halogen, alkyl, halogenoalkyl, alkoxy and/or nitro, unsubstituted aryl or aryl substituted by a

member selected from the group consisting of halogen, alkyl, alkoxy, halogenoalkyl, halogenoalkoxy and phenoxy or phenylthio which are in each case unsubstituted or substituted by halogen, alkyl, alkoxy, halogenoalkyl and/or halogenoalkoxy,

B represents hydroxyl, alkoxy, halogenoalkoxy or cycloalkoxy, the cycloalkyl radical being unsubstituted or substituted by halogen and/or alkyl, or

B represents the group ##STR2## wherein C and D independently of one another represent hydrogen, alkyl, alkenyl, alkoxyalkyl, alkylthioalkyl or polyalkoxyalkyl, cycloalkyl which is optionally interrupted by hetero atoms or in each case unsubstituted or substituted phenyl, phenylalkyl, phenoxyalkyl, hetaryl or hetarylalkyl, or

C and D together with the nitrogen atom to which they are bonded, form a 3- to 9-membered, optionally substituted ring which is optionally interrupted by the further hetero atoms,

with the proviso that at least one radical X, Y or Z does not represent chlorine or methyl if B represents hydroxyl and A has a meaning other than optionally substituted aryl.

10 Claims, 0 Drawing figures

Full	Patent	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 57. Document ID: US 5132416 A

L8: Entry 57 of 66

File: USPT

Jul 21, 1992

US-PAT- 5132416

DOCUMENT-IDENTIFIER: US 5132416 A

TITLE: Ketophosphamide glycosides

DATE-ISSUED: July 21, 1992

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tietze, Hans E.	Goettingen	N/A	N/A	DEX
Fischer, Roland	Bovenden	N/A	N/A	DEX
Beller, Matthias	Goettingen	N/A	N/A	DEX

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Bayer Aktiengesellschaft	Leverkusen	N/A	N/A	DEX	03

APPL-NO: 1/ 570191

DATE FILING: August 20, 1990

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	3928659	August 30, 1989

INT-CLASS: C07H 11/04, C07H 13/00, C07H 15/00

US-CLASSIFIED: 536/117; 536/17.9, 536/17.2, 536/18.4, 536/4.1

US-CLASSIFIED: 536/117; 536/17.2, 536/17.9, 536/18.4, 536/4.1

FIELD-OF-RESEARCH: 536/117, 536/17.9, 536/18.4, 536/17.2, 514/23, 514/25

REF-CITING:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
4061391	December 1977	Morgan et al.	536/117
4083331	April 1978	Morgan et al.	536/117
4841155	June 1989	Farquhar et al.	558/180
4901331	March 1990	Borch et al.	544/72

## FOREIGN PATENT DOCUMENTS

FOREIGN PAT-NO  
0345143PUBN-DATE  
December 1989COUNTRY  
EPX

US-CL

## OTHER PUBLICATIONS

Liebman Annalen Der Chemie, vol. 1990, No. 2, Feb. 1990, pp. 151-157, Weinheim, DE.; L. F. Tietze et al.: "Novel stable bioactivated cyclophosphamide derivatives for selective cancer chemotherapy synthesis of aldophosphamide acetal-glycosides and their glycoconjugates". Angewandte Chemie International Edition in English, vol. 29, No. 7, Jul. 1990, pp. 782-783, Weinheim, DE.; L. F. Tietze et al.: "Development of tailor-made cytostatics activable by acid-catalyzed hydrolysis for selective tumor therapy". Carbohydrate Research, vol. 194, Dec. 1989, pp. 155-162, Amsterdam, NL; L. F. Tietze et al.: "Stereoselective synthesis of 1,1-dialkyl-1-methoxy-methyl glucosides (acetal glucosides)", p. 156. Carbohydrate Research, vol. 180, 1988, pp. 253-262, Amsterdam, NL; L. F. Tietze et al.: "Stereoselective synthesis of (1-alkoxyalkyl) alpha- and beta-D-glucopyranosiduronates (acetal glucopyranosiduronates): A new approach to specific cytostatics for the treatment of cancer", p. 253 "Abstract"; p. 255.

ART-UNIT: 183

PRIMARY-EXAMINER: Brown; Johnnie R.

ASSISTANT-EXAMINER: White; Everett

ATTY-AGENT-FIRM: Sprung Horn Kramer &amp; Woods

ABSTRACT:

Compound of the formula (I) ##STR1## wherein R<sup>sup.1</sup> represents a pyranosyl radical and R<sup>sup.1</sup>, R<sup>sup.2</sup>, and R<sup>sup.3</sup> are as specified herein, compositions containing the compound, methods of using the compounds to selectively kill tumor cells, and a process for the preparation of the compounds.

5 Claims, 0 Drawing figures

Full	Chem	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 55. Document ID: US 5118849 A

L8: Entry 55 of 66

File: USPT

Jun 2, 1992

US-PAT-NO: 5118849

DOCUMENT IDENTIFIER: US 5118849 A

TITLE: Herbicidal and plant growth-regulating substituted n-aryl nitrogen heterocycles

DATE-ISSUED: June 2, 1992

## INVENTOR- INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Schaefer, Otto	Monheim	N/A	N/A	DEX
Fischer, Heiner	Monheim	N/A	N/A	DEX
Marhold, Hilbrecht	Leverkusen	N/A	N/A	DEX
Reubke, Karl-Julius	Cologne	N/A	N/A	DEX
Santel, Hans-Joachim	Leverkusen	N/A	N/A	DEX
Schmidt, Robert R.	Bergisch	N/A	N/A	DEX
Lurzer, Klaus	Bergisch	N/A	N/A	DEX
Strang, Harry	Duesseldorf	N/A	N/A	DEX

## ASSIGNOR- INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Bayel Aktiengesellschaft	Leverkusen	N/A	N/A	DEX	03

APPL-NO: 7/198003

DATE PUBL: April 16, 1991



## PARENT-CASE:

This is a division of application Ser. No. 354,328, filed May 19, 1989, now U.S. Pat. No. 5,039,341.

## FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	3819439	June 8, 1988

INT-CL: [7] C07C 211/45, C07C 211/46

US-CROSS-REFERENCED: 564/442; 564/305, 546/121, 548/513, 548/515, 548/549, 71/94, 71/95

US-CROSS-REFERENT: 564/442; 546/121, 548/513, 548/515, 548/549, 564/305

FIELDOF-RESEARCH: 564/442, 564/443, 564/305, 71/121

## REFERENCES:

## U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>365,000</u>	April 1972	Schwatz et al.	548/454
<u>412,000</u>	November 1978	Bollinger et al.	71/96
<u>473,000</u>	April 1988	Nagano et al.	564/442
<u>491,000</u>	April 1990	Moser et al.	71/96

## FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
0068000	January 1983	EPX	564/442
0190000	August 1986	EPX	564/443
0215000	March 1987	EPX	
0234000	September 1987	EPX	
0259200	March 1988	EPX	
0259200	March 1988	EPX	
0260000	March 1988	EPX	
0288000	November 1988	EPX	
60-100147A	January 1984	JPX	
863000	July 1959	GBX	

ART-UNIT: 129

PRIMARY-EXAMINER: Hollrah; Glennon H.

ASSISTANT-EXAMINER: Kumar; Shailendra

ATTY-INVENT-FIRM: Sprung Horn Kramer &amp; Woods

## ABSTRACT:

Intermediates of the formula ##STR1## are new, where

R stands for alkyl, alkenyl, cycloalkyl, cycloalkenyl, cycloalkylalkyl, or cycloalkenylalkyl, in each case having up to 20 carbon atoms, in each case optionally branched and in each case interrupted by 1 to 4 oxygen atoms, and

X stands for hydrogen or halogen, and are useful for synthesizing herbicidal and plant growth regulating compounds.

3 Claims, 0 Drawing figures

Full	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ Document ID: US 5069711 A

L8: Entry 59 of 66

File: USPT

Dec 3, 1991

US-PAT-5069711

TITLE: Herbicidal N-aryl-substituted nitrogen-containing heterocycles

DATE-ISSUED: December 3, 1991

## INVENTOR- INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fischer, Guiner	Monheim	N/A	N/A	DEX
Jensen, Ute; Uta	Duesseldorf	N/A	N/A	DEX
Kunisch, Franz	Odenthal	N/A	N/A	DEX
Marhold, Albrecht	Leverkusen	N/A	N/A	DEX
Ooms, Peter	Krefeld	N/A	N/A	DEX
Schallig, Otto	Monheim	N/A	N/A	DEX
Santel, Hans-Joachim	Leverkusen	N/A	N/A	DEX
Schmidt, Albert R.	Gladbach	N/A	N/A	DEX
Strand, Mary	Duesseldorf	N/A	N/A	DEX

## ASSIGNEE- INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Bayer Pharmazeutische Gesellschaft	Leverkusen	N/A	N/A	DEX	03

APPL-NO: 7/ 649101

DATE FILED: February 1, 1991

## PARENT-CASE:

This is a division of application Ser. No. 419,809, filed Oct. 11, 1989, now pending.

## FOREIGN-PAT-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	3835168	October 15, 1988

INT-CL: [B] A01N 43/48, A01N 43/36, C07D 471/02, C07D 211/22

US-CLASSIFICATION: 71/92; 71/95, 514/299, 546/121

US-CLASSIFICATION: 504/246; 504/236, 504/270, 504/278, 504/283, 504/286, 514/299, 546/121

FIELD-OF-SEARCH: 546/121, 546/240, 71/92, 71/95, 514/299

## REF-CITED:

## U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
4910724	April 1990	Moser et al.	548/513

## FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
0061500	October 1982	EPX	548/476
0083050	July 1983	EPX	548/476
0303073	February 1987	EPX	548/545

ART-UNIT: 121

PRIMARY-EXAMINER: Lee; Mary C.

ASSISTANT-EXAMINER: McKane; Joseph K.

ATTY-AGENT-FIRM: Sprung Horn Kramer &amp; Woods

## ABSTRACT:

Herbicidal N-aryl-substituted nitrogen-containing heterocycles of the formula ##STR1## in which H<sub>1</sub> represents a heterocycle of the formula ##STR2## R<sup>sup.1</sup> represents hydrogen or halogen and P<sup>sup.2</sup> represents halogen, hydroxyl or represents a radical --Z<sup>sup.2</sup> --R<sup>sup.1</sup>.

where

X<sup>sup.1</sup> represents oxygen, represents a --CH<sub>2</sub> group, represents a ##STR3## or

represents a #STR4## represents nitrogen or a CH group, Z.sup.1 represents oxygen or sulphur,

Z.sup.2 represents oxygen or sulphur,

R.sup.3 and R.sup.4 independently of one another in each case represent hydrogen or alkyl,

R.sup.3 and R.sup.6 either independently of one another in each case represent hydrogen or alkyl or together represent a double-linked alkanediyl radical,

R.sup.7 represents hydrogen, alkyl or represents optionally substituted aryl and

R.sup.8 represents in each case optionally substituted alkyl, alkenyl alkynyl or cycloalkyl.

14 Claims, 0 Drawing figures

Full	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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66 Document ID: US 5039334 A

L8: Entry 60 of 66

File: USPT

Aug 13, 1991

US-PAT-NO: 5039334

DOCUMENT IDENTIFIER: US 5039334 A

TITLE: Herbicidal and plant growth-regulating substituted N-aryl nitrogen heterocycles

DATE-IPSED: August 13, 1991

INVENTOR INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Schallnow, Otto	Monheim	N/A	N/A	DEX
Fischer, Rainer	Monheim	N/A	N/A	DEX
Marhold, Albrecht	Leverkusen	N/A	N/A	DEX
Reubke, Carl Julius	Cologne	N/A	N/A	DEX
Santel, Hans-Joachim	Leverkusen	N/A	N/A	DEX
Schmidt, Robert R.	Bergisch Gladbach	N/A	N/A	DEX
Lurssen, Klaus	Bergisch Gladbach	N/A	N/A	DEX
Strang, Harry	Duesseldorf	N/A	N/A	DEX

ASSIGNEE INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Bayer Aktiengesellschaft	Leverkusen	N/A	N/A	DEX	03

APPL-NO: 7/ 354328

DATE FILED: May 19, 1989

FOREIGN-FILE-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	3819439	June 8, 1988

INT-CL: [7] ACIN 43/36, C07D 209/44, C07D 207/444

US-CL-CLASS: 71/05; 71/94, 71/96, 546/121, 548/513, 548/515, 548/549

US-CL-CROSS-REF: 504/283; 504/166, 504/167, 504/246, 504/286, 546/121, 548/513, 548/515, 548/549

FIELD-OF-SEARCH: 548/513, 548/515, 548/549, 546/121, 71/94, 71/95, 71/96

REF-CITED:

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>3654302</u>	April 1972	Schwatz et al.	21/96
<u>4124375</u>	November 1978	Bollinger et al.	71/96
<u>4484940</u>	November 1984	Nagano et al.	71/96

# FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO.	PUBN-DATE	COUNTRY	US-CL
49511	April 1982	EPX	548/513
0068802	January 1983	EPX	548/513
0190755	August 1986	EPX	548/513
0215404	March 1987	EPX	548/513
0234323	September 1987	EPX	
0259201	March 1988	EPX	
0259205	March 1988	EPX	
0260215	March 1988	EPX	
288901	November 1988	EPX	
57-02256	April 1982	JPX	
280471	December 1986	JPX	

ART-UNIT: 123  
 PRIMARY-EXAMINER: Ivy, C. Warren  
 ASSISTANT-EXAMINER: Chang, Celia  
 ATTY-AGENT-FIRM: Sprung Horn Kramer & Woods

## ABSTRACT:

Herbicidal and plant growth-regulating substituted N-aryl nitrogen heterocycles of the formula ##STR1# in which Het stands for ##STR2## where A stands for ##STR3## where R.sup.1 and R.sup.2 in each case independently of one another stand for hydrogen, halogen, halogenoalkyl or alkyl,

Y.sup.1 and Y.sup.2 in each case stand for oxygen or sulphur and

Z stands for hydrogen, hydroxyl or chlorine,

R stands for alkyl, alkenyl, cycloalkyl, cycloalkenyl, cycloalkylalkyl, or cycloalkenylalkyl, in each case optionally branched and in each case interrupted by at least one oxygen atom, and

X stands for hydrogen or halogen.

Intermediates of the formula ##STR4## are also new.

17 Claims, 0 Drawing figures

Full	Table	Front	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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Generate Collection

Terms	Documents
17 and (necetonitrile or methylcyano)	66

Display

10

Documents, starting with Document:

61

Display Format:

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## Generate Collection

Search Results - Record(s) 61 through 66 of 66 returned.

61. Document ID: US 5006148 A

L8: Entry 61 of 66

File: USPT

Apr 9, 1991

US-PAT-NO: 5006148

DOCUMENT-IDENTIFIER: US 5006148 A

TITLE: N-aryl-substituted nitrogen-containing heterocycles, and their use as herbicides and plant growth regulators

DATE-ISSUED: April 9, 1991

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fischer; Reiner	Monheim	N/A	N/A	DEX
Jensen-Korte; Uta	Duesseldorf	N/A	N/A	DEX
Kunisch; Franz	Odenthal-Gloeibusch	N/A	N/A	DEX
Marhold; Albrecht	Leverkusen	N/A	N/A	DEX
Ooms; Pieter	Krefeld	N/A	N/A	DEX
Schallner; Otto	Monheim	N/A	N/A	DEX
Santel; Hans-Joachim	Leverkusen	N/A	N/A	DEX
Schmidt; Robert R.	Bergisch-Gladbach	N/A	N/A	DEX
Krauskopf; Birgit	Bergisch-Gladbach	N/A	N/A	DEX
Strang; Harry	Duesseldorf	N/A	N/A	DEX

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Bayer Aktiengesellschaft	Leverkusen	N/A	N/A	DEX	03

APPL-NO: 7/ 435898

DATE FILED: November 13, 1989

## FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	3839480	November 23, 1988

INT-CL: [5] A61N 43/56, C07D 231/22

US-CL-ISSUED: 71/72; 71/74, 71/92, 548/375

US-CL-CURRENT: 504/280; 504/169, 504/170, 504/246, 504/265, 504/273, 504/281, 548/377.1

FIELD-OF-RESEARCH: 548/375, 71/72, 71/74, 71/92

## REF-CITED:

## U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
475877	July 1988	Gehring et al.	548/375
482687	May 1989	Jensen-Korte et al.	548/375

## FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
347382	December 1989	EPX	

ART-UNIT: 121

PRIMA-P-EXAMINER: Ramsuer, Robert W.  
ATTY-, GLNT-FIRM: Spring Horn Kramer & Woods

ABSTRACT:

The invention relates to novel N-aryl-substituted nitrogen-containing heterocycles, several processes and novel intermediates for their preparation, and their use as herbicides and plant growth regulators.

7 Claims, 6 Drawing figures

Full	Text	Claims	Front	Review	Classification	Date	Reference	Claims	Keyword	Draw Desc	Image
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☐ 02. Document ID: US 4898608 A

L8: Entry 02 of 06

File: USPT

Feb 6, 1990

US-PAT-NO: 4898608

DOCUMENT-IDENTIFIER: US 4898608 A

TITLE: Pyridylthio-acylanilide herbicides

DATE-ISSUED: February 6, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sasser, Klaus	Bergisch-Gladbach	N/A	N/A	DEX
Fischer, Reiner	Monheim	N/A	N/A	DEX
Santely, Hans-Joachim	Leverkusen	N/A	N/A	DEX
Schmidt, Robert R.	Bergisch-Gladbach	N/A	N/A	DEX

ASSIGNER-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Bayer Aktiengesellschaft	Leverkusen	N/A	N/A	DEX	03

APPL-NO: 1/ 038700

DATE FILED: April 15, 1987

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	3614846	May 2, 1986

INT-CL: [4] C07D 213/57, C07D 213/64, A01N 43/40

US-CL-ISSUE: 71/94; 546/288, 546/291

US-CL-CURRENT: 504/257; 504/167, 504/225, 504/251, 504/256, 546/288, 546/291

FIELD-SEARCH: 546/288, 546/291, 71/94

REF-CITED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
325771	May 1966	Brokke	544/315

FOREIGN PATENT DOCUMENTS

FOREIGN PAT NO	PUBN-DATE	COUNTRY	US-CL
2501618	July 1975	DEX	546/291

OTHER PUBLICATIONS

Derwent Japanese 22.5.67-17.5.67, vol. 6, No. 19.  
Agricultural Chemistry, J5 5122-763.

ART-UNIT: 101  
PRIMA-EXAMINER: Rotman; Alan L.  
ATTY-AGENT-FIRM: Sprung, Horn, Kramer & Woods

ABSTRACT:

Novel herbicidally active pyridylthio-acylanilides of the formula ##STR1## in which R.sup.1, R.sup.2 and R.sup.3, independently of one another, represent hydrogen, halogen, cyano or trifluoromethyl or alkyl, alkoxy and alkylthio having 1 to 4 carbon atoms in each case,

R.sup.4 represents halogen, methyl or methoxy,

n represents a number 0, 1 or 2,

z represents the group (Ia) ##STR2## or the group (Ib) ##STR3## where X represents oxygen, sulphur or N, R.sup.10 or N--O--R.sup.11 group, or X and R.sup.g together represent the ##STR4## group, and the other radicals can have various meanings. Intermediates of the formula ##STR5## are also new.

9 Claims, 9 Drawing figures

Full	Claim	Front	Review	Classification	Date	Reference	Claims	RMK	Draw Desc	Image
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Document ID: US 4871387 A

L8: Entry 63 of 66

File: USPT

Oct 3, 1989

US-PAT: 4871387

DOCUMENT IDENTIFIER: US 4871387 A

TITLE: Pyridyl-oxy-and -thio-benzoic acid derivatives useful as herbicides and plant growth regulators.

DATE-FILED: October 3, 1989

INVENTOR-NAME:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sass, Klaus	Bergisch Gladbach	N/A	N/A	DEX
Fischer, Rainer	Monheim	N/A	N/A	DEX
Hagen, Hermann	Leverkusen	N/A	N/A	DEX
Santel, Hans-Joachim	Leverkusen	N/A	N/A	DEX
Schmidt, Robert R.	Bergisch Gladbach	N/A	N/A	DEX
Lursch, Klaus	Bergisch Gladbach	N/A	N/A	DEX

ASSIGNOR-NAME:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Bayer AG	Leverkusen	N/A	N/A	DEX	03

APPL-NO: 938203

DATE-FILED: December 4, 1986

FOREIGN APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	3543037	December 5, 1985
DE	3602016	January 24, 1986

INT-C: 1986 A01N 43/40, C07D 417/00, 0/, 0/, C07D 239/02

US-C: 1986 71/92; 71/94, 540/544, 540/545, 540/553, 540/554, 540/575, 540/600, 540/601, 544/544, 544/61, 544/114, 544/116, 544/302, 544/311, 544/312, 544/313, 544/314, 544/316, 544/317, 544/318, 546/112, 546/141, 546/142, 546/143, 546/145, 546/146, 546/147, 546/153, 546/154, 546/157, 546/291, 546/293, 546/296, 546/297, 546/300, 546/301, 546/302  
US-C: 1986 504/223; 504/167, 504/168, 504/225, 504/235, 504/240, 504/242, 504/246,

504/2, 544/243, 504/252, 504/253, 504/255, 504/256, 504/257, 504/258, 504/259, 540/544,  
 540/545, 540/553, 540/554, 540/575, 540/600, 540/601, 544/114, 544/116, 544/302, 544/311,  
 544/312, 544/313, 544/314, 544/316, 544/317, 544/318, 544/60, 544/61, 546/112, 546/141,  
 546/142, 546/143  
 FIELD OF SEARCH: 544/316, 544/302, 544/311, 544/312, 544/313, 544/314, 544/316, 544/317,  
 544/318, 544/114, 544/116, 544/60, 544/61, 540/545, 540/544, 540/553, 540/554, 540/575,  
 540/60, 540/601, 71/92

REF-CITED:

#### U.S. PATENT DOCUMENTS

PAT-	ISSUE-DATE	PATENTEE-NAME	US-CL
442777	January 1984	Serban et al.	544/311

#### FOREIGN PATENT DOCUMENTS

FOREIGN-PATENT-NO	PUBN-DATE	COUNTRY	US-CL
000111	March 1979	EPX	544/312

#### OTHER PUBLICATIONS

Chemistry of Plant Protecting Agents and Pesticides vol. 2, pp. 289-295; vol. 5, pp. 209-217, Springer-Verlag, Berlin 1970/1977.  
 Chemistry of Plant Protecting Agents and Pesticides vol. 2, pp. 353-354 and vol. 5, p. 318, Springer-Verlag, Berlin 1970/1977, GDR Patent No. 109, 170.

ART-NUM: 121

PRIMA-EXAMINER: Lee; Mary C.

ASSISTANT-EXAMINER: Richter; J.

ATTY-AGENT-FIRM: Sprung Horn Kramer & Woods

#### ABSTRACT:

New pyridine dyl-oxy- or -thio-benzoic acid derivatives of the formula ##STR1## are taught which have herbicidal and plant growth regulating activity. In the formula Z can be Ch or N, X is oxygen or sulphur, A is oxygen, sulphur, a radical R<sup>sup.5</sup> --N.dbd.or a radical R<sup>sup.4</sup> O--N.dbd.and B is oxygen, sulphur, a radical ##STR2## with the proviso that at least one of the radicals R<sup>sup.1</sup>, R<sup>sup.2</sup> or R<sup>sup.3</sup> represents alkyl or a part of a 3- to 6-membered fused carbocyclic ring.

9 Claims 0 Drawing figures

File	Info	Draw	Font	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ Document ID: US 4865641 A

L8: Entry C of 66

File: USPT

Sep 12, 1989

US-PAT-NO: 4865641

DOCUMENT-IDENTIFIER: US 4865641 A

TITLE: Herbicidal new thiazolyl ether and thioether derivatives

DATE-FILED: September 12, 1989

INVENTOR-INFORMATION:



NAME	CITY	STATE	ZIP CODE	COUNTRY
Sasser, Klaus	Bergisch-Gladbach	N/A	N/A	DEX
Fischer, Rainer	Monheim	N/A	N/A	DEX
Hagermann, Hermann	Leverkusen	N/A	N/A	DEX
Kreber, Andreas	Odenthal	N/A	N/A	DEX
Schwarzbach, Michael	Cologne	N/A	N/A	DEX
Santer, Hans-Joachim	Leverkusen	N/A	N/A	DEX
Schmidt, Robert R.	Bergisch-Gladbach	N/A	N/A	DEX
Strang, Robert H.	Duesseldorf	N/A	N/A	DEX

# ASSIGNMENT INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Bayel Aktiv Gesellschaft	Leverkusen	N/A	N/A	DEX	03

APPL-NO: 71/166137  
DATE FILED: March 9, 1988

# FOREIGN-APPL PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	3708201	March 13, 1987

INT-CL: [4] C07D 277/34, A01N 43/78  
US-CL-ISSUED: 71/90; 548/186, 548/187  
US-CL-CURRENT: 504/193; 504/266, 504/292, 504/293, 504/294, 504/295, 548/186, 548/187  
FIELD-OF-SEARCH: 548/186, 548/187, 71/90

# REF-CITED:

## FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
63996	December 1983	CHX	548/186
131654	May 1973	GBX	548/186

## OTHER PUBLICATIONS

T. J. J. et al, Agr. Biol. Chem. 30, (9), p. 896 et seq. (1966).  
Chemical Abstracts vol. 70.

ART-UNIT: 72  
PRIMARY-EXAMINER: Gerstl; Robert  
ATTY-AGENT-FIRM: Sprung Horn Kramer & Woods

# ABSTRACT:

Herbicide active compounds of the formula ##STR1## in which R.sup.1 represents hydrogen or alkyl,

R.sup.1 represents hydrogen or alkyl,

with the proviso that R.sup.1 and R.sup.2 do not simultaneously represent hydrogen,

X represents oxygen or sulphur,

R.sup.2 represents hydrogen, halogen, nitro, amino, cyano, alkyl, halogenoalkyl, alkoxy or halogenalkoxy,

wherein the radicals R.sup.3 can be identical or different,

n represents a number from 1-4,

U represents oxygen or sulphur,

V represents a ##STR2## group, R.sup.4 and R.sup.5 independently of one another represent hydrogen, alkyl, alkoxyalkyl or halogenoalkyl,

W represents a radical ##STR3## D represents carbon or silicon, E represents oxygen or sulphur, and

R.sup. through R.sup.12 can have various meanings.

The starting materials wherein -U-V-W together are OH are also new.

10 Claims, 0 Drawing figures

Full	Pat	Publication	Front	Review	Classification	Date	Reference	Claims	KMC	Draw Desc	Image
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Document ID: US 4765824 A

L8: Entry 65 of 66

File: USPT

Aug 23, 1988

US-PAT: 4765824

DOCUMENT IDENTIFIER: US 4765824 A

TITLE: 2-pyrimidyl-thio-carboxanilides

DATE-FILED: August 23, 1988

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sasse, Klaus	Bergisch Gladbach	N/A	N/A	DEX
Fischer, Reiner	Monheim	N/A	N/A	DEX
Hagemann, Hermann	Leverkusen	N/A	N/A	DEX
Santel, Hans-Joachim	Leverkusen	N/A	N/A	DEX
Schmidt, Robert R.	Bergisch Gladbach	N/A	N/A	DEX
Strang, Robert H.	Dusseldorf	N/A	N/A	DEX

ASSIGNMENT-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Bayer AG	Leverkusen	N/A	N/A	DEX	03

DISCLAIMER DATE: 20031209

APPL-NO: 67 934064

DATE FILED: November 21, 1986

FOREIGN-APPL PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	3344209	December 13, 1985

INT-CL: [4] A01N 43/48, C07D 239/02

US-CL-ISSUED: 71/92; 544/316, 544/311, 544/312

US-CL-CURRENT: 504/242; 504/243, 544/311, 544/312, 544/316

FIELD-SEARCH: 544/316, 544/311, 544/312, 71/92

REF-CITED:

U.S. PATENT DOCUMENTS

PAT-N	ISSUE-DATE	PATENTEE-NAME	US-CL
4627877	May 1985	Sasse et al.	544/318

FOREIGN PATENT DOCUMENTS

FOREIGN PAT-N	PUBN-DATE	COUNTRY	US-CL
0168607	January 1986	EPX	544/316
109170	October 1974	DEX	544/316

OTHER PUBLICATIONS

ART-UNIT: 121

PRIMARY-EXAMINER: Lee; Mary C.

ASSISTANT-EXAMINER: Northington; Zinna

ATTY-AGENT-FIRM: Sprung Horn Kramer & Woods

ABSTRACT:

A pyrimidyl-thio-carboxanilide of the formula (I), ##STR1## in which R.sup.1 represents hydrogen or halogen, alkyl, alkoxy or alkylthio having 1 to 6 carbon atoms in each case, trifluoromethyl, or phenyl which is unsubstituted or mono- or poly-substituted, identically or differently, by halogen, methyl, ethyl, methoxy or trifluoromethyl,

R.sup.2 represents hydrogen, halogen, alkyl having 1 to 6 carbon atoms or trifluoromethyl,

R.sup.3 represents halogen, methyl or methoxy,

n represents an integer 0, 1 or 2, and

Z represents the radical ##STR2## where X represents oxygen or sulphur,

R.sup.4 represents hydrogen or hydroxyl, alkyl or alkoxy having 1 to 6 carbon atoms in each case, alkenyl or alkynyl having 3 to 6 carbon atoms in each case, with the proviso that R.sup.4 does not represent hydrogen when X represents oxygen,

R.sup.5 represents hydrogen, halogen or alkyl having 1 to 6 carbon atoms which is unsubstituted or mono- or poly-substituted by halogen or

R.sup.4 and R.sup.5, together with the carbon atom and the nitrogen atom to which they are bonded, form a 3- to 8-membered heterocyclic ring which is unsubstituted or mono- or poly-substituted, identically or differently, by halogen, methyl or ethyl and which may contain one or more double bonds,

R.sup.6 and R.sup.7, independently of one another, represent halogen or alkyl having 1 to 6 carbon atoms which is unsubstituted or mono- or poly-substituted by halogen,

R.sup.6 and R.sup.7, together with the carbon atom to which they are bonded, form a 3- to 8-membered ring which may also contain oxygen and/or sulphur atoms as ring members in addition to carbon, and which is unsubstituted or mono- or poly-substituted by halogen, methyl or ethyl and which may contain one or more double bonds, and

R.sup.8 represents hydrogen, alkyl having 1 to 6 carbon atoms, which is unsubstituted or mono- or poly-substituted by halogen, alkenyl or alkynyl having 3 to 6 carbon atoms in each case, processes for their preparation, herbicidal compositions and methods for combating weeds using such pyrimidyl-thio-carboxanilides.

8 Claims, 10 Drawing figures

Full	Abstract	Claims	Drawings	Review	Classification	Date	Reference	Claims	INDEX	Draw Desc	Image
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☐ 66 Document ID: US 4524202 A

L8: En 1/1/85 66

File: USPT

Jun 18, 1985

US-PAT-NO: 4524202  
DOCUMENT-IDENTIFIER: US 4524202 A

TITLE: Process for the preparation of 1,1'-diacetals

DATE-ISSUED: June 18, 1985

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tietze; Lothar Friedjan	Goettingen	N/A	N/A	DEX
Fischer; Roland	Noertenhardenberg	N/A	N/A	DEX

ASSIGNMENT INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Bayer Aktiengesellschaft	Leverkusen	N/A	N/A	DEX	03

APPL-NO: 3,1655

DATE FILED: June 24, 1982

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	3128271	July 17, 1981

INT-CL: [A] 307H 1/00

US-CL-ISSUED: 536/18.5; 536/18.6; 536/121; 536/124; 568/591; 568/592; 568/603

US-CL-CURRENT: 536/18.5; 536/121; 536/124; 536/18.6; 568/591; 568/592; 568/603

FIELD-OF-SEARCH: 536/4.1; 536/18.5; 536/18.6; 536/121; 536/124; 568/591; 568/592; 568/603

REF-CITED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
3632860	January 1972	Marbet	568/591
4096321	June 1978	Weigele et al.	536/121
4272526	June 1981	Simpkins et al.	536/115
4280011	July 1981	DeSimone	568/603
4374811	February 1983	Joseph et al.	536/4.1
4374832	February 1983	Joseph et al.	536/4.1

ART-UNIT: 123

PRIMARY-EXAMINER: Brown; Johnnie R.

ATTY-AGENT-FIRM: Sprung, Horn, Kramer & Woods

ABSTRACT:

The invention relates to a process for the synthesis of 1,1'-diacetals, which method is also suitable for the stereoselective synthesis of glycosides with the 1,1'-diacetal structure. The process involves reacting a silyl compound of formula (II) with an acetal of formula (III) in the presence of a catalyst of formula (IV) or (V) in a suitable solvent.

8 Claims, 2 Drawing figures

Full	Title	Abstract	Front	Review	Classification	Date	Reference	Claims	RMIC	Draw Desc	Image
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17 and (nitrile or methylcyano)	66

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USPT	fischer.in.	4132	<u>L6</u>
USPT	11 and 14	1	<u>L5</u>
USPT	bayer.as.	12050	<u>L4</u>
USPT	11 and (acetonitrile or methylcyano)	85	<u>L3</u>
USPT	11 and (acetonitrile or cyano)	127	<u>L2</u>
USPT	fisher.in.	2485	<u>L1</u>

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